**Quadratic equations**

**Previous year questions**

**Directions**: In the following question **two equations** numbered I and II are given. You have to solve both the equations and give answer thereof.

**Q1.**
I. \( p^2 + 5p + 6 = 0 \)
II. \( q^2 + 3q + 2 = 0 \)
(a) \( p \) is greater, than \( q \).
(b) \( p \) is smaller than \( q \).
(c) \( p \) is equal to \( q \).
(d) \( p \) is either equal to or greater than \( q \).
(e) \( p \) is either equal to or smaller than \( q \).

**Q2.**
I. \( p^2 = 4 \)
II. \( q^2 + 4q = -4 \)
(a) \( p \) is greater, than \( q \).
(b) \( p \) is smaller than \( q \).
(c) \( p \) is equal to \( q \).
(d) \( p \) is either equal to or greater than \( q \).
(e) \( p \) is either equal to or smaller than \( q \).

**Q3.**
I. \( p^2 + 4p = 56 \)
II. \( q^2 - 17q + 72 = 0 \)
(a) \( p \) is greater, than \( q \).
(b) \( p \) is smaller than \( q \).
(c) \( p \) is equal to \( q \).
(d) \( p \) is either equal to or greater than \( q \).
(e) \( p \) is either equal to or smaller than \( q \).

**Q4.**
I. \( 3p + 2q - 58 = 0 \)
II. \( 4q + 4p = 92 \)
(a) \( p \) is greater, than \( q \).
(b) \( p \) is smaller than \( q \).
(c) \( p \) is equal to \( q \).
(d) \( p \) is either equal to or greater than \( q \).
(e) \( p \) is either equal to or smaller than \( q \).

**Q5.**
I. \( 3p^2 + 17p + 10 = 0 \)
II. \( 10q^2 + 9q + 2 = 0 \)
(a) \( p \) is greater, than \( q \).
(b) \( p \) is smaller than \( q \).
(c) \( p \) is equal to \( q \).
(d) \( p \) is either equal to or greater than \( q \).
(e) \( p \) is either equal to or smaller than \( q \).

**Q6.**
I. \( 4x^2 - 8x + 3 = 0 \)
II. \( 2y^2 - 7y + 6 = 0 \)
(a) \( x < y \)
(b) \( x \leq y \)
(c) \( x = y \)
(d) \( x \geq y \)
(e) \( x > y \)

**Q7.**
I. \( x^2 - x - 6 = 0 \)
II. \( 2y^2 - 13y + 21 = 0 \)
(a) \( x < y \)
(b) \( x \leq y \)
(c) \( x = y \)
(d) \( x \geq y \)
(e) \( x > y \)

**Q8.**
I. \( x^2 = 4 \)
II. \( y^2 + 6y + 9 = 0 \)
(a) \( x < y \)
(b) \( x \leq y \)
(c) \( x = y \)
(d) \( x \geq y \)
(e) \( x > y \)

**Q9.**
I. \( x^2 - x - 6 = 0 \)
II. \( 2y^2 + 13y + 21 = 0 \)
(a) \( x < y \)
(b) \( x \leq y \)
(c) \( x = y \)
(d) \( x \geq y \)
(e) \( x > y \)

**Q10.**
I. \( 2x + 3y = 4 \)
II. \( 3x + 2y = 11 \)
(a) \( x < y \)
(b) \( x \leq y \)
(c) \( x = y \)
(d) \( x \geq y \)
(e) \( x > y \)

**Q11.**
I. \( 4x + 2y = 51 \)
II. \( 15y + 13x = 221 \)
(a) \( x > y \)
(b) \( x \leq y \)
(c) \( x < y \)
(d) \( x = y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q12.**
I. \( 8x^2 + 3x = 38 \)
II. \( 6y^2 + 34 = 29y \)
(a) \( x > y \)
(b) \( x \leq y \)
(c) \( x < y \)
(d) \( x \geq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q13.**
Q14.  
I. \(6x^2 + 13x + 5 = 0\).  
II. \(9y^2 + 22y + 8 = 0\).  
(a) \(x > y\)  
(b) \(x \leq y\)  
(c) \(x < y\)  
(d) \(x \geq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q15.  
I. \((x+y)^2 = 784\).  
II. \(92551 = 92567 - y\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q16.  
I. \(x^2 - 14x + 48 = 0\).  
II. \(y^2 + 6 = 5y\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q17.  
I. \(x^2 + 9x + 20 = 0\).  
II. \(y^2 + 7y + 12 = 0\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q18.  
I. \(x^2 = 529\).  
II. \(y^2 = \sqrt{529}\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q19.  
I. \(x^2 + 13x = -42\).  
II. \(y^2 + 16y + 63 = 0\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q20.  
I. \(2x + 3y\).  
II. \(4x + 2y = 16\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q21.  
I. \(x^2 = -1\).  
II. \(y^2 + 4y + 3 = 0\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q22.  
I. \(x^2 - 7x + 12 = 0\).  
II. \(y^2 - 12y + 32 = 0\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q23.  
I. \(x^3 - 371 = 629\).  
II. \(y^3 - 543 = 788\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q24.  
I. \(5x + 2y = 31\).  
II. \(3x + 7y = 36\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q25.  
I. \(x^2 + 13x = -42\).  
II. \(y^2 + 16y + 63 = 0\).  
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established
Q26. I. $2x^2 + 11x + 12 = 0$
II. $5y^2 + 27y + 10 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q27. I. $2x^2 + 14x + 14 = 0$
II. $4y^2 + 12y + 9 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q28. I. $x^2 - 4 = 0$
II. $y^2 + 6y + 9 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q29. I. $x^2 = 729$
II. $y = \sqrt{729}$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q30. I. $x^4 - 227 = 398$
II. $y^2 + 321 = 346$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q31. I. $x^2 - 12 = 0$
II. $y^2 + 5y + 6 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q32. I. $x^2 - 8x + 15 = 0$
II. $y^2 - 3y + 2 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q33. I. $x^2 - 32 = 112$
II. $y - \sqrt{169} = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q34. I. $x - \sqrt{121} = 0$
II. $y^2 - 121 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q35. I. $x^2 - 16 = 0$
II. $y^2 - 9y + 20 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q36. I. $3x + 8x + 4 = 0$
II. $4y^2 - 19y + 12 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q37.**
I. $x^2 + x - 20 = 0$
II. $y^2 - y - 30 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q38.**
I. $x^2 + x - 20 = 0$
II. $y^2 - y - 30 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q39.**
I. $x^2 + 11x + 30 = 0$
II. $y^2 + 7y + 12 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q40.**
Directions (43-47): In the following questions two equations numbered I and II are given. You have to solve both the equations and — Give answer

I. $5x^2 - 18x + 9 = 0$
II. $20y^2 - 13y + 2 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q41.**
I. $x^2 - 365 = 364$
II. $y - \sqrt{324} = \sqrt{81}$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q42.**
I. $x^3 - 878 = 453$
II. $y^2 - 82 = 39$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q43.**
I. $3x - 2y = 10$
II. $5x - 6y = 6$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q44.**
I. $x^2 + x - 12 = 0$
II. $y^2 - 5y + 6 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q45.**
I. $x^2 + 9x + 18 = 0$
II. $y^2 - 13y + 40 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q46.**
I. $\sqrt{x + 6} = \sqrt{121 - \sqrt{36}}$
II. $y^2 + 112 = 473$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q47.**
I. $\sqrt{(x + 6)} = \sqrt{121 - \sqrt{36}}$
II. $y^2 + 112 = 473$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q48.**
I. $x^2 - 1200 = 244$
II. $y + 122 = 159$
(a) $x > y$
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q49.**
I. \( 14x - 25 = 59 - 7x \)
II. \( \sqrt{y + 222} - \sqrt{36} = \sqrt{81} \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q50.**
I. \( 14x^2 - 16 = 9 \)
II. \( 12y + 74 = \sqrt{49} \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q51.**
I. \( x^2 - 9x + 20 = 0 \)
II. \( y^2 - 13y + 42 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q52.**
2\(x + 3y = 78\) and 3\(x + 2y = 72\), what is value of \( x + y \) ?
(a) 36
(b) 32
(c) 30
(d) Cannot be determined
(e) None of these

**Q53.**
I. \( 20x^2 - x - 12 = 0 \)
II. \( 20y^2 + 27y + 9 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q54.**
I. \( x^2 - 218 = 106 \)
II. \( y^2 - 37y + 342 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)

(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q55.**
I. \( \sqrt{361x} + \sqrt{16} = 0 \)
II. \( \sqrt{441y} + 4 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q56.**
I. \( \sqrt{x + 18} = \sqrt{144} - \sqrt{49} \)
II. \( y^2 + 409 = 473 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q57.**
I. \( x^2 - 7x + 12 = 0 \)
II. \( y^2 - 9y + 20 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q58.**
I. \( y^2 - x^2 = 32 \)
II. \( y - x = 2 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q59.**
I. \( 3x + 5y = 28 \)
II. \( 8x - 3y = 42 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q60.**
I. \( \sqrt{289x} + \sqrt{25} = 0 \)
II. \( \sqrt{676y} + 10 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q61.**
I. \( 8x^2 - 78x + 169 = 0 \)
II. \( 20y^2 - 117y + 169 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q62.**
I. \( 8x^2 - 78x + 169 = 0 \)
II. \( 20y^2 - 117y + 169 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q63.**
I. \( x^2 - 11x + 24 = 0 \)
II. \( 2y^2 - 9y + 9 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q64.**
I. \( x^2 \times 13 = x^2 \times 247 \)
II. \( y^{1/3} \times 14 = 294 + y^{2/3} \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q65.**
I. \( \sqrt{500x} + \sqrt{402} = 0 \)
II. \( \sqrt{360y} + (200)^{1/2} = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q66.**
I. \( (17)^2 + 144 + 18 = x \)
II. \( (26)^2 - 18 \times 21 = y \)
(a) \( x > y \)
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q73.**
\[
\left(\frac{x^{1/4}}{16}\right)^2 = 144 + x^{3/2}\  
\text{II. } y^{1/3} \times y^{2/3} \times 3104 = 16 \times y^2
\]
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q74.**

I. \(3x^2 - 19x + 28 = 0\)
II. \(5y^2 - 18y + 16 = 0\)
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q75.**

I. \(\sqrt{225} x + \sqrt{4900} = 0\)
II. \((81)^{1/4} y + (343)^{1/3} = 0\)
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q76.**

I. \(12x^2 + 11x + 12 = 10x^2 + 22x\)
II. \(13y^2 - 18y + 3 = 9y^2 - 10y\)
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q77.**

I. \(\sqrt{(25x^2)} - 125 = 0\)
II. \(\sqrt{361y} + 95 = 0\)
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q78.**

I. \(x^2 - 19x + 84 = 0\)
II. \(y^2 - 25y + 156 = 0\)
(a) \(x > y\)  
(b) \(x \geq y\)  
(c) \(x < y\)  
(d) \(x \leq y\)  
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q84.**
I. $3x^2 - 13x + 14 = 0$
II. $y^2 - 7y + 12 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q85.**
I. $3x^2 - 13x + 14 = 0$
II. $y^2 - 7y + 12 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q86.**
I. $x^2 + 5x + 6 = 0$
II. $y^2 + 7y + 12 = 0$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q87.**
I. $x^2 + 20 = 9x$
II. $y^2 + 42 = 13y$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q88.**
I. $x = \sqrt{625}$
II. $y = \sqrt{676}$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q89.**
I. $x^2 + 4x + 4 = 0$
II. $y^2 - 8y + 16 = 0$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$

(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q90.**
I. $x^2 - 24x + 144 = 0$
II. $y^2 - 26y + 169 = 0$
(a) $x < y$
(b) $x > y$
(c) $x = y$
(d) $x \geq y$
(e) $x \leq y$

**Q91.**
I. $x^2 + 3x - 20 = 0$
II. $y^2 + 19y + 44 = 0$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q92.**
I. $x^2 + 77x + 121 = 0$
II. $y^2 + 9y - 22 = 0$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q93.**
I. $x^2 - 6x = 7$
II. $y^2 + 13y + 15 = 0$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q94.**
I. $10x^2 - 7x + 1 = 0$
II. $35y^2 - 12y + 1 = 0$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q95.**
I. $4x^2 + 32x + 63 = 0$
II. $2y^2 - 11y + 15 = 0$
(a) $x \geq y$
(b) $x > y$
(c) $x \leq y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q96.**
I. $x^3 = (216)^{1/3}$
II. $6y^2 = 150$
(a) x < y  
(b) x > y  
(c) x ≤ y  
(d) x ≥ y  
(e) x = y or no relation between two can be established.

**Q97.**
I. 12x² + 17x + 6 = 0  
II. 6y² + 5y + 1 = 0  
(a) x < y  
(b) x > y  
(c) x ≤ y  
(d) x ≥ y  
(e) x = y or no relation between two can be established.

**Q98.**
I. 12x² + 17x + 6 = 0  
II. 6y² + 5y + 1 = 0  
(a) x < y  
(b) x > y  
(c) x ≤ y  
(d) x ≥ y  
(e) x = y or no relation between two can be established.

**Q99.**
I. 20x² + 9x + 1 = 0  
II. 6y² + 5y + 1 = 0  
(a) x < y  
(b) x > y  
(c) x ≤ y  
(d) x ≥ y  
(e) x = y or no relation between two can be established.

**Q100.**
I. 6x² + 23x + 20 = 0  
II. 6y² + 31y + 35 = 0  
(a) x > y  
(b) x ≥ y  
(c) x < y  
(d) x ≤ y  
(e) x = y or the relation cannot be established.

**Q101.**
I. x² = 81  
II. y² - 18y + 81 = 0  
(a) x > y  
(b) x ≥ y  
(c) x < y  
(d) x ≤ y  
(e) x = y or the relation cannot be established.

**Q102.**
I. 4x² + 20x + 21 = 0  
II. 2y² + 17y + 35 = 0  
(a) x > y  
(b) x ≥ y  
(c) x < y  
(d) x ≤ y  
(e) x = y or the relation cannot be established.
Q109.
I. $2x^2 + 11x + 6 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship cannot be established.

Q110.
I. $2x^2 + 11x + 6 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship cannot be established.

Q111.
I. $2x^2 + 11x + 6 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship cannot be established.

Q112.
I. $2x^2 + 11x + 6 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship cannot be established.

Q113.
I. $2x^2 + 11x + 6 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship cannot be established.

Q114.
I. $2x^2 + 11x + 6 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship cannot be established.

Q115.
I. $2x^2 + 11x + 6 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship cannot be established.

Q116.
Directions: In the following question two equations numbered I and II are given. You have to solve both the equations and give answer thereof.
I. $2x^2 + 15x + 28 = 0$
II. $4y^2 + 18y + 14 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

Q117.
I. $2x^2 + 15x + 28 = 0$
II. $4y^2 + 18y + 14 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

Q118.
I. $2x^2 + 15x + 28 = 0$
II. $4y^2 + 18y + 14 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

Q119.
I. $2x^2 + 15x + 28 = 0$
II. $4y^2 + 18y + 14 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

Q120.
I. $2x^2 + 15x + 28 = 0$
II. $4y^2 + 18y + 14 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

Q121.
I. $2x^2 + 15x + 28 = 0$
II. $4y^2 + 18y + 14 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q122.**
I. $6x^2 + 19x + 15 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q123.**
I. $9x^2 - 27x + 20 = 0$
II. $6y^2 - 5y + 1 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q124.**
I. $x^2 - 6x + 9 = 0$
II. $2y^2 - 21 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q125.**
I. $2x^2 - x - 10 = 0$
II. $2y^2 - y - 21 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q126.**
I. $3x^2 - 22x + 40 = 0$
II. $2y^2 - 19y + 44 = 0$
(a) $x > y$
(b) $x < y$
(c) $x > y$
(d) $x \leq y$
(e) $x = y$ relationship between $x$ and $y$ cannot be established.

**Q127.**
I. $3x^2 - 16x + 21 = 0$
II. $3y^2 - 28y + 65 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ relationship between $x$ and $y$ cannot be established.

**Q128.**
I. $3x^2 - 16x + 21 = 0$
II. $2y^2 - 21 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q129.**
I. $3x^2 - 16x + 21 = 0$
II. $3y^2 - 28y + 65 = 0$
(a) $x > y$
(b) $x < y$
(c) $x > y$
(d) $x \leq y$
(e) $x = y$ relationship between $x$ and $y$ cannot be established.

**Q130.**
I. $5x^2 + 29x + 20 = 0$
II. $3y^2 - 7y + 2 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q131.**
I. $5x^2 + 29x + 20 = 0$
II. $25y^2 + 25y + 6 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q132.**
I. $2x^2 - 11x + 12 = 0$
II. $2y^2 - 19y + 44 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q133.**
I. $3x^2 + 10x + 8 = 0$
II. $3y^2 + 7y + 4 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation cannot be established.

**Q134.**
I. $2x^2 + 21 + 10 = 0$
II. $3y^2 + 13y + 14 = 0$
(a) $x > y$
(b) $x \geq y$
Q135.
I. $2x^2 + 19x + 45 = 0$
II. $2y^2 + 11y + 12 = 0$
(a) $x > y$
(b) $x > y$
(c) $x < y$
(d) relationship between $x$ and $y$ cannot be determined
(e) $x = y$ or the relationship cannot be established.

Q136.
I. $3x^2 - 13x + 12 = 0$
II. $2y^2 - 15y + 28 = 0$
(a) $x > y$
(b) $x > y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q137.
I. $x^2 = 16$
II. $2y^2 - 17y + 36 = 0$
(a) $x > y$
(b) $x > y$
(c) $x < y$
(d) relationship between $x$ and $y$ cannot be determined
(e) $x \leq y$

Q138.
I. $6x^2 + 19x + 15 = 0$
II. $3y^2 + 11y + 10 = 0$
(a) $x > y$
(b) $x > y$
(c) $x < y$
(d) relationship between $x$ and $y$ cannot be determined
(e) $x < y$

Q139.
I. $1.2x^2 - 11x + 15 = 0$
II. $2y^2 - 11y + 14 = 0$
(a) $x > y$
(b) $x > y$
(c) $x < y$
(d) relationship between $x$ and $y$ cannot be determined
(e) $x \leq y$

Q140.
I. $x^2 + x - 12 = 0$
II. $y^2 + 2y - 8 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q141.
I. $4x^2 - 13x + 9 = 0$
II. $3y^2 - 14y + 16 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q142.
I. $8x^2 + 18x + 9 = 0$
II. $4y^2 + 19y + 21 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q143.
I. $3x^2 + 16x + 21 = 0$
II. $6y^2 + 17y + 12 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q144.
168-
I. $x^2 = 49$
II. $y^2 - 4y - 21 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q145.
I. $x^2 = 81$
II. $y^2 + 13y + 36 = 0$
(a) $x \geq y$
(b) $x \leq y$
(c) $x > y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q146.
I. $2x^2 - 11x + 14 = 0$
II. $2y^2 - 7y + 6 = 0$
(a) $x \geq y$
(b) $x \leq y$
(c) $x > y$
(d) $x < y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

Q147.
1. \(3x^2 - 13x + 14 = 0\)
2. \(3y^2 - 17y + 22 = 0\)
   (a) \(x \geq y\)
   (b) \(x \leq y\)
   (c) \(x > y\)
   (d) \(x < y\)
   (e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q148.**

1. \(2x^2 + 9x + 9 = 0\)
2. \(4y + 9y + 5 = 0\)
   (a) \(x \geq y\)
   (b) \(x \leq y\)
   (c) \(x > y\)
   (d) \(x < y\)
   (e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q149.**

1. \(2x^2 + 9x + 9 = 0\)
2. \(4y + 9y + 5 = 0\)
   (a) \(x \geq y\)
   (b) \(x \leq y\)
   (c) \(x > y\)
   (d) \(x < y\)
   (e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

**Q150.**

1. \(x^2 - 7x + 12 = 0\)
2. \(2y^2 - 19y + 44 = 0\)
   (a) \(x \geq y\)
   (b) \(x \leq y\)
   (c) \(x > y\)
   (d) \(x < y\)
   (e) \(x = y\) or relationship between \(x\) and \(y\) cannot be determined

**Q151.**

1. \(x^2 = 144\)
2. \(y^2 - 24y + 144 = 0\)
   (a) \(x \leq y\)
   (b) \(x \geq y\)
   (c) relationship between \(x\) and \(y\) cannot be determined
   (d) \(x < y\)
   (e) \(x > y\)

**Q152.**

1. \(2x^2 - 9x + 10 = 0\)
2. \(2y^2 - 13y + 20 = 0\)
   (a) \(x \leq y\)
   (b) \(x \geq y\)
   (c) relationship between \(x\) and \(y\) cannot be determined
   (d) \(x < y\)
   (e) \(x > y\)

**Q153.**

1. \(3x^2 - 13x + 12 = 0\)
2. \(3y^2 - 13y + 14 = 0\)
   (a) \(x \leq y\)
   (b) \(x \geq y\)
   (c) relationship between \(x\) and \(y\) cannot be determined
   (d) \(x < y\)
   (e) \(x > y\)

**Q154.**

1. \(5x^2 + 8x + 3 = 0\)
2. \(3y^2 + 7y + 4 = 0\)
   (a) \(x \leq y\)
   (b) \(x \geq y\)
   (c) relationship between \(x\) and \(y\) cannot be determined
   (d) \(x < y\)
   (e) \(x > y\)

**Q155.**

1. \(3x^2 - 22x + 40 = 0\)
2. \(5y^2 - 21y + 16 = 0\)
   (a) \(x \geq y\)
   (b) \(x \leq y\)
   (c) \(x < y\)
   (d) \(x = y\) or the relationship between \(x\) and \(y\) cannot be established.

**Q156.**

1. \(25x^2 + 35x + 12 = 0\)
2. \(10y^2 + 9y + 2 = 0\)
   (a) \(x \geq y\)
   (b) \(x \leq y\)
   (c) \(x < y\)
   (d) \(x \leq y\)
   (e) \(x = y\) or the relationship between \(x\) and \(y\) cannot be established.

**Q157.**

1. \(12x^2 + 7x + 1 = 0\)
2. \(6y^2 + 5y + 1 = 0\)
   (a) \(x > y\)
   (b) \(x \geq y\)
   (c) \(x < y\)
   (d) \(x \leq y\)
   (e) \(x = y\) or the relationship between \(x\) and \(y\) cannot be established.

**Q158.**

1. \(3x^2 - 13x - 10 = 0\)
2. \(3y^2 + 10y - 8 = 0\)
   (a) \(x > y\)
   (b) \(x \geq y\)
   (c) \(x < y\)
   (d) \(x \leq y\)
(e) x = y or the relationship between x and y cannot be established.

**Q159.**
I. $2x^2 - 21x + 52 = 0$
II. $2y^2 - 11y + 12 = 0$
(a) $x > y$
(b) $x \leq y$
(c) $x \geq y$
(d) $x < y$
(e) Relationship between x and y cannot be established

**Q160.**
I. $3x^2 - 13x + 14 = 0$
II. $2y^2 - 5y + 3 = 0$
(a) $x > y$
(b) $x \leq y$
(c) $x \geq y$
(d) $x < y$
(e) Relationship between x and y cannot be established

**Q161.**
I. $4x^2 - 8x + 3 = 0$
II. $4y^2 - 15y + 14 = 0$
(a) $x > y$
(b) $x \leq y$
(c) $x \geq y$
(d) $x < y$
(e) Relationship between x and y cannot be established

**Q162.**
I. $2x^2 - 9x + 9 = 0$
II. $y^2 - 7y + 12 = 0$
(a) $x > y$
(b) $x \leq y$
(c) $x \geq y$
(d) $x < y$
(e) Relationship between x and y cannot be established

**Q163.**
I. $4x^2 + 19x + 22 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) $x > y$
(b) $x \leq y$
(c) $x \geq y$
(d) $x < y$
(e) Relationship between x and y cannot be established

**Q164.**
I. $4q^2 + 8q = 4q + 8$
II. $p^2 + 9p = 2p - 12$
(a) $x > y$
(b) $x \leq y$
(c) $x \geq y$
(d) $x < y$
(e) Relationship between x and y cannot be established

**Q165.**
Directions: In the following question two equations numbered I and II are given. You have to solve both the equations and give answer.

I. $12x^2 - 7x + 6 = 0$
II. $4y^2 = 9$
(a) $p = q$
(b) $p > q$
(c) $q > p$
(d) $p \geq q$ and
(e) $q \geq p$

**Q166.**
I. $4x^2 - 4x - 3 = 0$
II. $4y^2 + 12y + 5 = 0$
(a) $x < y$
(b) $x \leq y$
(c) $x = y$
(d) $x > y$
(e) $x \geq y$

**Q167.**
I. $4x^2 = 49$
II. $9y^2 - 66y + 121 = 0$
(a) $x < y$
(b) $x \leq y$
(c) $x = y$
(d) $x > y$
(e) $x \geq y$

**Q168.**
I. $x^2 + 9x + 14 = 0$
II. $y^2 + y - 2 = 0$
(a) $x < y$
(b) $x \leq y$
(c) $x = y$
(d) $x > y$
(e) $x \geq y$

**Q169.**
I. $9x^2 - 18x + 5 = 0$
II. $2y^2 - 9y + 10 = 0$
(a) $x < y$
(b) $x \leq y$
(c) $x = y$
(d) $x > y$
(e) $x \geq y$

**Q170.**
I. $16p^2 + 5p + 1 = 0$
II. $20q^2 + 9q = -1$
(a) $p$ is greater than $q$.
(b) $p$ is smaller than $q$.
(c) $p$ is equal to $q$.
(d) $p$ is either equal to or greater than $q$.
(e) $p$ is either equal to or smaller than $q$. 

**Q171.**
I. $3p^2 + 2p - 1 = 0$
II. $2q^2 + 7q + 6 = 0$
(a) $p$ is greater than $q$.
(b) $p$ is smaller than $q$.
(c) $p$ is equal to $q$.
(d) $p$ is either equal to or greater than $q$.
(e) $p$ is either equal to or smaller than $q$.

Q172.
I. $3p^2 + 15p = -18$
II. $q^2 + 7q + 6 = 0$
(a) $p$ is greater than $q$.
(b) $p$ is smaller than $q$.
(c) $p$ is equal to $q$.
(d) $p$ is either equal to or greater than $q$.
(e) $p$ is either equal to or smaller than $q$.

Q173.
I. $p^2 + 13p + 42 = 0$
II. $q^2 = 36$
(a) $p$ is greater than $q$.
(b) $p$ is smaller than $q$.
(c) $p$ is equal to $q$.
(d) $p$ is either equal to or greater than $q$.
(e) $p$ is either equal to or smaller than $q$.

Q174.
I. $a^2 + 5a + 6 = 0$
II. $b^2 + 3b + 2 = 0$
(a) $a < b$
(b) $a > b$
(c) relationship between $a$ & $b$ cannot be established
(d) $a \geq b$
(e) $a \leq b$

Q175.
I. $2a^2 + 3a + 1 = 0$
II. $12b^2 + 7b + 1 = 0$
(a) $a < b$
(b) $a > b$
(c) relationship between $a$ & $b$ cannot be established
(d) $a \geq b$
(e) $a \leq b$

Q176.
I. $a^2 = 4$
II. $a^2 = 9$
(a) $a < b$
(b) $a > b$
(c) relationship between $a$ & $b$ cannot be established

Q178.
I. $6a^2 - 25a + 25 = 0$
II. $15b^2 - 16b + 4 = 0$
(a) $a < b$
(b) $a > b$
(c) relationship between $a$ & $b$ cannot be established
(d) $a \geq b$
(e) $a \leq b$

Q179.
I. $4a^2 - 20a + 21 = 0$
II. $2b^2 - 5b + 3 = 0$
(a) $a < b$
(b) $a > b$
(c) relationship between $a$ & $b$ cannot be established
(d) $a \geq b$
(e) $a \leq b$

Q180.
I. $2q^2 + 18 = 12q$
II. $2q^2 + 4 = 0$
(a) $p = q$
(b) $p > q$
(c) $p < q$
(d) $p > q$ and
(e) $q > p$

Q181.
I. $q^2 + q = 2$
II. $p^2 + 7p + 10 = 0$
(a) $p = q$
(b) $p > q$
(c) $p < q$
(d) $p > q$ and
(e) $q > p$

Q182.
I. $p^2 + 16 = 8p$
II. $4q^2 + 64 = 32q$
(a) $p = q$
(b) $p > q$
(c) $p < q$
(d) $p > q$ and
(e) $q > p$

Q183.
I. $2p^2 + 12p + 16 = 0$
II. $2q^2 + 14q + 24 = 0$
(a) $p = q$
(b) $p > q$
(c) $p < q$
(d) $p > q$ and
(e) $q > p$

Q184.
I. $p^2 - 7p = -12$
II. $q^2 - 3q + 2 = 0$
(a) $p < q$
Q185.
I. $12p^2 - 7p = -1$
II. $6q^2 - 7q + 2 = 0$
(a) $p < q$
(b) $p > q$
(c) $p \leq q$
(d) $p \geq q$
(e) $p = q$

Q186.
I. $p^2 + 12p + 35 = 0$
II. $2q^2 + 22q + 56 = 0$
(a) $p < q$
(b) $p > q$
(c) $p \leq q$
(d) $p \geq q$
(e) $p = q$

Q187.
I. $p^2 - 8p + 15 = 0$
II. $q^2 - 5q = -6$
(a) $p < q$
(b) $p > q$
(c) $p \leq q$
(d) $p \geq q$
(e) $p = q$

Q188.
I. $2p^2 + 20p + 50 = 0$
II. $q^2 - 25 = 0$
(a) $p < q$
(b) $p > q$
(c) $p \leq q$
(d) $p \geq q$
(e) $p = q$

Q189.
I. $3x^2 + 14x + 15 = 0$
II. $6y^2 + 17y + 12 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q190.
I. $3x^2 - 17x + 24 = 0$
II. $4y^2 - 15y + 14 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q191.
I. $2x^2 + 11x + 14 = 0$
II. $2y^2 + 17y + 33 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q192.
I. $3x^2 + 13x + 12 = 0$
II. $2y + 15y + 27 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q193.
I. $x^2 - 22x + 121 = 0$
II. $y^2 = 121$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relationship cannot be established.

Q194.
I. $4x^2 + 17x + 15 = 0$
II. $3y^2 + 19y + 28 = 0$
(a) $x \geq y$
(b) $x \leq y$
(c) $x > y$
(d) $x < y$
(e) relationship between $x$ and $y$ cannot be established.

Q195.
I. $5x^2 - 17x + 22 = 0$
II. $5y^2 - 21y + 22 = 0$
(a) $x \geq y$
(b) $x \leq y$
(c) $x > y$
(d) $x < y$
(e) relationship between $x$ and $y$ cannot be established.

Q196.
I. $3x^2 + 11x + 10 = 0$
II. $2y^2 + 13y + 21 = 0$
(a) $x \geq y$
(b) $x \leq y$
(c) $x > y$
(d) $x < y$
(e) relationship between $x$ and $y$ cannot be established.

Q197.
I. $3x^2 + 13x + 14 = 0$
II. $8y^2 + 26y + 21 = 0$
(a) $x \geq y$
(b) $x \leq y$
(c) \( x > y \)
(d) \( x < y \)
(e) relationship between \( x \) and \( y \) cannot be established

**Q198.**

I. \( 3x^2 - 14x + 15 = 0 \)
II. \( 15y^2 - 34y + 15 = 0 \)
(a) \( x \geq y \)
(b) \( x \leq y \)
(c) \( x > y \)
(d) \( x < y \)
(e) relationship between \( x \) and \( y \) cannot be established

**Q199.**

I. \( 3x^2 - 14x + 15 = 0 \)
II. \( 15y^2 - 34y + 15 = 0 \)
(a) \( x \geq y \)
(b) \( x \leq y \)
(c) \( x > y \)
(d) \( x < y \)
(e) relationship between \( x \) and \( y \) cannot be established

**Q200.**

I. \( 3x^2 + 29x + 56 = 0 \)
II. \( 2y^2 + 15y + 25 = 0 \)
(a) \( x < y \)
(b) \( x > y \)
(c) \( x \leq y \)
(d) \( x \geq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q201.**

I. \( 3x^2 + 23x + 44 = 0 \)
II. \( 3y^2 + 20y + 33 = 0 \)
(a) \( x < y \)
(b) \( x > y \)
(c) \( x \leq y \)
(d) \( x \geq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q202.**

I. \( 4x^2 - 29x + 56 = 0 \)
II. \( 3y^2 - 19y + 28 = 0 \)
(a) \( x < y \)
(b) \( x > y \)
(c) \( x \leq y \)
(d) \( x \geq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q203.**

I. \( 2x^2 - 13x + 21 = 0 \)
II. \( 5y^2 - 22y + 21 = 0 \)
(a) \( x < y \)
(b) \( x > y \)
II. $y^2 - 9y + 20 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation-ship cannot be established

Q211.

I. $(x)^2 = 961y = \sqrt{961}$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation-ship cannot be established

Q212.

I. $x^2 - 72 = x$
II. $y^2 = 64$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation-ship cannot be established

Q213.

I. $x^2 - 463 = 321$
II. $y^2 - 421 = 308$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or the relation-ship cannot be established

Q214.

Directions: In the following question three equations numbered I, II and III are given. You have to solve both the equations and give answer thereof.
I. $7x + 6y + 4z = 122$
II. $4x + 5y + 3z = 88$
II. $9x + 2y + z = 78$
(a) $x < y = z$
(b) $x \leq y < z$
(c) $x < y > z$
(d) $x = y > z$
(e) $x = y = z$ or none of the above relationships established

Q215.

Directions: In the following question three equations numbered I, II and III are given. You have to solve both the equations and give answer thereof.
I. $x = \sqrt{(36)^{1/2} \times (1296)^{1/4}}$
II. $2y + 3z = 33$
II. $6y + 5z = 71$
(a) $x < y = z$
(b) $x \leq y < z$
(c) $x < y > z$
(d) $x = y > z$
(e) $x = y = z$ or none of the above relationships established

Q216.

Directions: In the following question three equations numbered I, II and III are given. You have to solve both the equations and give answer thereof.
I. $x = \sqrt{[36]^{1/2} \times (1296)^{1/4}}$
II. $2y + 3z = 33$
II. $6y + 5z = 71$
(a) $x < y = z$
(b) $x \leq y < z$
(c) $x < y > z$
(d) $x = y > z$
(e) $x = y = z$ or none of the above relationships established

Q217.

Directions: In the following question three equations numbered I, II and III are given. You have to solve both the equations and give answer thereof.
I. $8x + 7y = 135$
II. $5x + 6y = 99$
II. $9y + 8z = 121$
(a) $x < y = z$
(b) $x \leq y < z$
(c) $x < y > z$
(d) $x = y > z$
(e) $x = y = z$ or none of the above relationships established

Q218.

I. $30x^2 + 11x + 1 = 0$
II. $42 y^2 + 13y + 1 = 0$
(a) $x < y$
(b) $x \leq y$
(c) $x = y$ or the relation cannot be established
(d) $x \geq y$
(e) $x > y$

Q219.

I. $x^2 - x - \sqrt{2x} + \sqrt{2} = 0$
II. $y^2 - 3y + 2 = 0$
(a) $x < y$
(b) $x \leq y$
(c) $x = y$ or the relation cannot be established
(d) $x \geq y$
(e) $x > y$

Q220.

I. $x^2 - 2x - \sqrt{5x} + 2 \sqrt{5} = 0$
II. $y^2 - \sqrt{3y} - \sqrt{2y} + \sqrt{6} = 0$
(a) $x < y$
(b) $x \leq y$
(c) $x = y$ or the relation cannot be established
(d) $x \geq y$
(e) $x > y$

Q221.
Q222.  
I. \( x^2 + 12x + 36 = 0 \)  
II. \( y^2 = 16 \)  
(a) \( x < y \)  
(b) \( x \leq y \)  
(c) \( x = y \) or the relation cannot be established  
(d) \( x > y \)  
(e) \( x \geq y \)  

Q223.  
I. \( 9x^2 + 3x - 2 = 0 \)  
II. \( 8y^2 + 6y + 1 = 0 \)  
(a) \( x < y \)  
(b) \( x \leq y \)  
(c) \( x = y \) or the relation cannot be established  
(d) \( x \geq y \)  
(e) \( x > y \)  

Q224.  
I. \( 9x^2 + 3x - 2 = 0 \)  
II. \( 8y^2 + 6y + 1 = 0 \)  
(a) \( x < y \)  
(b) \( x \leq y \)  
(c) \( x = y \) or the relation cannot be established  
(d) \( x \geq y \)  
(e) \( x > y \)  

Q225.  
I. \( 64x^2 - 64x + 15 = 0 \)  
II. \( 21y^2 - 13y + 2 = 0 \)  
(a) \( x < y \)  
(b) \( x \leq y \)  
(c) \( x = y \) or the relation cannot be established  
(d) \( x \geq y \)  
(e) \( x > y \)  

Q226.  
I. \( 15x^2 - 19x + 6 = 0 \)  
II. \( 45y^2 - 47y + 12 = 0 \)  
(a) \( x < y \)  
(b) \( x \leq y \)  
(c) \( x = y \) or the relation cannot be established  
(d) \( x \geq y \)  
(e) \( x > y \)  

Q227.  
I. \( 2x^2 + 5x + 2 = 0 \)  
II. \( 12y^2 + 7y + 1 = 0 \)  
(a) \( x < y \)  
(b) \( x \geq y \)  
(c) \( x < y \)  
(d) \( x \leq y \)
Q234.
1. 2x² + 9x + 7 = 0
II. 2y² + 9y + 10 = 0
(a) x > y
(b) x ≥ y
(c) x < y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q235.
1. 2x² + 9x + 7 = 0
II. 2y² + 9y + 10 = 0
(a) x > y
(b) x ≥ y
(c) x < y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q236.
1. 2x² + 9x + 7 = 0
II. 2y² + 9y + 10 = 0
(a) x > y
(b) x ≥ y
(c) x < y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q237.
1. 2x² + 9x + 7 = 0
II. 2y² + 9y + 10 = 0
(a) x > y
(b) x ≥ y
(c) x < y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q238.
1. 2x² + 9x + 7 = 0
II. 2y² + 9y + 10 = 0
(a) x > y
(b) x ≥ y
(c) x < y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q239.
I. x² + 7x + 12 = 0
II. 2y² + 11y + 15 = 0
(a) x > y
(b) x ≥ y
(c) x < y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q240.
I. x² + 7x + 12 = 0
II. 2y² + 11y + 15 = 0
(a) x > y
(b) x ≥ y
(c) x < y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q241.
I. 2x² + 11x + 14 = 0
II. 2y² + 15y + 28 = 0
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q242.
I. 2x² + 11x + 14 = 0
II. 2y² - 7y - 2 = 0
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q243.
I. 2x² + 11x + 14 = 0
II. 2y² + 15y + 28 = 0
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q244.
I. 2x² + 13x + 21 = 0
II. 2y² - 9y + 10 = 0
(a) x < y
(b) x ≥ y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q245.
I. 3x² - 14x + 15 = 0
II. 2y² - 9y + 9 = 0
(a) x < y
(b) x ≥ y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q246.
I. 3x² - 14x + 15 = 0
II. 2y² - 9y + 9 = 0
(a) x < y
(b) x ≥ y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q247.
I. 3x² - 14x + 15 = 0
II. 2y² - 9y + 9 = 0
(a) x < y
(b) x ≥ y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q248.
1. 3x² - 14x + 15 = 0
II. 2y² - 9y + 9 = 0
(a) x < y
(b) x ≥ y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q249.
1. 3x² - 14x + 15 = 0
II. 2y² - 9y + 9 = 0
(a) x < y
(b) x ≥ y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established

Q250.
1. 3x² - 14x + 15 = 0
II. 2y² - 9y + 9 = 0
(a) x < y
(b) x ≥ y
(c) x ≥ y
(d) x ≤ y
(e) relationship between x and y cannot be established
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) x = y or relationship between x and y cannot be established.

**Q247.**
I. $x^2 = 25$
II. $y^2 - 6y + 9 = 0$
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) x = y or relationship between x and y cannot be established.

**Q248.**
I. $x^2 = 25$
II. $y^2 - 6y + 9 = 0$
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) x = y or relationship between x and y cannot be established.

**Q249.**
I. $x^2 = 25$
II. $y^2 - 6y + 9 = 0$
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) x = y or relationship between x and y cannot be established.

**Q250.**
Directions: In the following question two equations numbered I and II are given. You have to solve both the equations and give answer thereof.
I. $x^2 - 21x + 10 = 0$
II. $y^2 - 9y + 20 = 0$
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) x = y or relationship between x and y cannot be established.

**Q251.**
I. $2x^2 - 13x + 27 = 0$
II. $2y^2 - 13y + 20 = 0$
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) x = y or relationship between x and y cannot be established.

**Q252.**
I. $2x^2 - 13x + 27 = 0$
II. $2y^2 - 13y + 20 = 0$
(a) x < y
(b) x > y
(c) x ≥ y
(d) x ≤ y
(e) x = y or relationship between x and y cannot be established.

**Q253.**
I. $p^2 - 5p + 6 = 0$
II. $q^2 + 3q + 2 = 0$
(a) p is greater than q.
(b) p is smaller than q.
(c) p is equal to q.
(d) p is either equal to or greater than q.
(e) p is either equal to or smaller than q.

**Q254.**
I. $p^2 + 5p + 6 = 0$
II. $q^2 + 3q + 2 = 0$
(a) p is greater than q.
(b) p is smaller than q.
(c) p is equal to q.
(d) p is either equal to or greater than q.
(e) p is either equal to or smaller than q.

**Q255.**
I. $p^2 + 5p + 6 = 0$
II. $q^2 + 3q + 2 = 0$
(a) p is greater than q.
(b) p is smaller than q.
(c) p is equal to q.
(d) p is either equal to or greater than q.
(e) p is either equal to or smaller than q.

**Q256.**
I. $3p + 2q = 58$
II. $4q + 4p = 92$
(a) p is greater than q.
(b) p is smaller than q.
(c) p is equal to q.
(d) p is either equal to or greater than q.
(e) p is either equal to or smaller than q.

**Q257.**
I. $3p^2 + 17p + 10 = 0$
II. $10q^2 + 9q + 2 = 0$
(a) p is greater than q.
(b) p is smaller than q.
(c) p is equal to q.
(d) p is either equal to or greater than q.
(e) p is either equal to or smaller than q.

**Q258.**
I. $4x^2 - 8x + 3 = 0$
II. $2y^2 - 7y + 6 = 0$
(a) x < y
Q259.
I. \(x^2 + x - 6 = 0\)
II. \(2y^2 - 13y + 21 = 0\)
(a) \(x < y\)
(b) \(x \leq y\)
(c) \(x = y\)
(d) \(x \geq y\)
(e) \(x > y\)

Q260.
I. \(x^2 - x - 6 = 0\)
II. \(2y^2 + 13y + 21 = 0\)
(a) \(x < y\)
(b) \(x \leq y\)
(c) \(x = y\)
(d) \(x \geq y\)
(e) \(x > y\)

Q261.
I. \(x^2 = 4\)
II. \(y^2 + 6y + 9 = 0\)
(a) \(x < y\)
(b) \(x \leq y\)
(c) \(x = y\)
(d) \(x \geq y\)
(e) \(x > y\)

Q262.
I. \(2x + 3y = 4\)
II. \(3x + 2y = 11\)
(a) \(x < y\)
(b) \(x \leq y\)
(c) \(x = y\)
(d) \(x \geq y\)
(e) \(x > y\)

Q263.
I. \(4x + 2y = 51\)
II. \(15y + 13x = 221\)
(a) \(x < y\)
(b) \(x \leq y\)
(c) \(x = y\)
(d) \(x \geq y\)
(e) \(x > y\) or relationship between \(x\) and \(y\) cannot be established

Q264.
I. \(8x^2 + 3x = 38\)
II. \(6y^2 + 34 = 29y\)
(a) \(x > y\)
(b) \(x \leq y\)
(c) \(x < y\)
(d) \(x \geq y\)
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q265.
I. \(x^2 + 91 = 20x\)
II. \(10y^2 - 29y + 21 = 0\)
(a) \(x > y\)
(b) \(x \leq y\)
(c) \(x < y\)
(d) \(x \geq y\)
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q266.
I. \(6x^2 + 13x + 5 = 0\)
II. \(9y^2 + 22y + 8 = 0\)
(a) \(x > y\)
(b) \(x \leq y\)
(c) \(x < y\)
(d) \(x \geq y\)
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q267.
I. \((x+y)^2 = 784\)
II. \(92551 = 92567 - y\)
(a) \(x > y\)
(b) \(x \leq y\)
(c) \(x < y\)
(d) \(x \geq y\)
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q268.
I. \(x^2 - 14x + 48 = 0\)
II. \(y^2 + 6 = 5y\)
(a) \(x > y\)
(b) \(x \geq y\)
(c) \(x < y\)
(d) \(x \leq y\)
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q269.
I. \(x^2 + 9x + 20 = 0\)
II. \(y^2 + 7y + 12 = 0\)
(a) \(x > y\)
(b) \(x \geq y\)
(c) \(x < y\)
(d) \(x \leq y\)
(e) \(x = y\) or relationship between \(x\) and \(y\) cannot be established

Q270.
I. \(x^2 = 529\)
II. \(y^2 = \sqrt{529}\)
(a) \(x > y\)
(b) \(x \geq y\)
(c) \(x < y\)
(d) \(x \leq y\)
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q271.**
I. $x^2 + 13x = -42$
II. $y^2 + 16y + 63 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q272.**
I. $x^2 + 13x = -42$
II. $y^2 + 16y + 63 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q273.**
I. $2x + 3y = 31$
II. $4x + 2y = 36$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q274.**
I. $x^2 - 7x + 12 = 0$
II. $y^2 - 12y + 32 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q275.**
I. $x^3 - 371 = 629$
II. $y^3 - 543 = 788$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q276.**
I. $5x + 2y = 31$
II. $3x + 7y = 36$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q277.**
I. $2x^2 + 11x + 12 = 0$
II. $5y^2 + 27y + 10 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q278.**
I. $2x^2 + 11x + 14 = 0$
II. $4y^2 + 12y + 9 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q279.**
I. $x^2 - 4 = 0$
II. $y^2 + 6y + 9 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q280.**
I. $x^2 - 7x + 12 = 0$
II. $y^2 - 12y + 32 = 0$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q281.**
I. $x^2 = 729$
II. $y = \sqrt{729}$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) $x \leq y$
(e) $x = y$ or relationship between $x$ and $y$ cannot be established

**Q282.**
I. $x^4 - 227 = 398$
II. $y^2 + 321 = 346$
(a) $x > y$
(b) $x \geq y$
(c) $x < y$
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q283.**
I. \( x^2 - x - 12 = 0 \)
II. \( y^2 + 5y + 6 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q284.**
I. \( x^2 - x - 12 = 0 \)
II. \( y^2 + 5y + 6 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q285.**
I. \( x^2 - 32 = 112 \)
II. \( y^2 - \sqrt{169} = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q286.**
I. \( x^2 - 8x + 15 = 0 \)
II. \( y^2 + 5y + 6 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q287.**
I. \( x^2 - 8x + 15 = 0 \)
II. \( y^2 + 5y + 6 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q288.**
I. \( 3x + 8x + 4 = 0 \)
II. \( 4y^2 - 19y + 12 = 0 \)
(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established
II. \( \sqrt{y + 155} - \sqrt{36} = \sqrt{49} \)

(a) \( x > y \)
(b) \( x \leq y \)
(c) \( x < y \)
(d) \( x \geq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q295.**

I. \( x^2 + 11x + 30 = 0 \)
II. \( y^2 + 7y + 12 = 0 \)

(a) \( x > y \)
(b) \( x \leq y \)
(c) \( x < y \)
(d) \( x \geq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q296.**

I. \( 3x - 2y = 10 \)
II. \( 5x - 6y = 6 \)

(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q297.**

I. \( x^2 + x - 12 = 0 \)
II. \( y^2 - 5y + 6 = 0 \)

(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**ANSWERS:**

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- (c) \( x < y \)
- (d) \( x \leq y \)
- (e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q298.**

I. \( x^2 + 9x + 18 = 0 \)
II. \( y^2 - 13y + 40 = 0 \)

(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q299.**

I. \( \sqrt{x + 6} = \sqrt{121 - \sqrt{36}} \)
II. \( y^2 + 112 = 473 \)

(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

**Q300.**

I. \( x^2 - 1200 = 244 \)
II. \( y + 122 = 159 \)

(a) \( x > y \)
(b) \( x \geq y \)
(c) \( x < y \)
(d) \( x \leq y \)
(e) \( x = y \) or relationship between \( x \) and \( y \) cannot be established

127 c  128 d  129 c  130 a  131 c  132 b  133 c  134 e  135 c  136 c  137 e  138 b  139 d  140 b  141 a  142 a  143 c  144 d  145 a  146 a  147 b  148 d  149 b  150 a  151 b  152 d  153 c  154 b  155 d  156 c  157 b  158 e  159 c  160 a  161 d  162 b  163 e  164 d  165 d  166 e  167 e  168 a  169 b  170 b  171 a  172 d  173 e  174 e  175 e  176 a  177 c  178 b  179 d  180 b  181 b  182 a  183 d  184 b  185 a  186 c  187 b  188 c  189 c  190 a  191 a  192 b  193 e  194 c  195 a  196 c  197 d  198 a  199 a  200 a  201 d  202 e  203 c  204 a  205 c  206 b  207 a  208 d  209 d  210 b  211 e  212 b  213 a  214 a  215 c  216 b  217 d  218 b  219 b  220 d  221 a  222 c  223 e  224 c  225 b  226 d  227 a  228 b  229 b  230 d  231 a  232 c  233 b  234 e  235 c  236 e  237 b  238 e  239 a  240 b  241 c  242 a  243 c  244 a  245 c  246 b  247 e  248 b  249 e  250 b  251 c  252 a  253 e  254 d  255 b  256 a  257 b  258 b  259 a  260 e  261 e  262 e  263 a  264 b