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Quadratic Equation Questions for IBPS Clerk Pre, SBI Clerk Pre and IBPS RRB.

Directions: In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

1. I. $x^3 - 4913 = 0$ II. $y^2 - 361 = 0$

- A. if $x < y$ B. if $x \leq y$ C. if $x > y$ D. if $x \geq y$
E. if $x = y$ or relationship between x and y can't be established

2. I. $x^2 = 361$ II. $y^3 = 7269 + 731$

- A. if $x < y$ B. if $x > y$ C. if $x \geq y$ D. if $x \leq y$
E. if $x = y$ or relationship between x and y can't be established

3. I. $15x^2 + x - 6 = 0$ II. $5y^2 - 23y + 12 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$ D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

4. I. $x^3 - 2744 = 0$ II. $y^2 - 256 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$ D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

5. I. $x^2 - 8x - 20 = 0$ II. $3y^2 - 60y + 297 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$ D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

6. I. $2x^2 + 9x + 7 = 0$ II. $y^2 + 4y + 4 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$ D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

7. I. $x^2 - 7x + 12 = 0$ II. $3y^2 - 11y + 10 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$ D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

8. I. $2x^2 + 15x + 28 = 0$ II. $2y^2 + 13y + 21 = 0$

- A. if $x > y$ B. if $x \geq y$ C. if $x < y$ D. if $x \leq y$
E. if $x = y$ or relationship between x and y can't be established

9. I. $x^2 - 8x + 15 = 0$

II. $y^2 - 12y + 36 = 0$

- A. if $x > y$
B. if $x \geq y$
C. if $x < y$
D. if $x \leq y$
E. if $x = y$ or relationship between x and y can't be established

10. I. $x^2 + 9x + 20 = 0$

II. $y^2 = 16$

- A. if $x > y$
B. if $x \geq y$
C. if $x < y$
D. if $x \leq y$
E. if $x = y$ or relationship between x and y can't be established

11. I. $x^2 + (343)^{1/3} = 56$

II. $(y)^{4/3} \times (y)^{5/3} - 295 = 217$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

12. I. $5x + 4y = 8$

II. $3x + 2y = 4$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

13. I. $x^2 + 8 = 6x$

II. $y^2 + 15 = 8y$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

14. I. $\sqrt{49} + \sqrt{x + 15} = \sqrt{169}$

II. $y^2 - 212 = 364$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

15. I. $x^2 - \frac{(10)^{5/2}}{\sqrt{x}} = 0$

II. $\frac{18}{\sqrt{y}} - \sqrt{y} = \frac{7}{\sqrt{y}}$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

16. I. $2x^2 + 7x + 5 = 0$

II. $3y^2 + 5y + 2 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

17. I. $2x^2 - 13x + 21 = 0$

II. $3y^2 - 14y + 15 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x \leq y$ or no relationship can be established between x and y .



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18. I. $2x^2 - 13x + 18 = 0$ II. $y^2 - 7y + 12 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$ D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

19. I. $x^2 + 6x + 9 = 0$ II. $y^2 - y - 20 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$ D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

20. I. $3x^2 - 10x + 8 = 0$ II. $2y^2 - 19y + 35 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$ D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

21. I. $x^2 - 3 = 2x$ II. $y^2 + 5y + 6 = 0$

- A. if $x > y$ B. if $x < y$ C. if $x \geq y$ D. if $x \leq y$
E. if $x = y$ or relationship between x and y can't be established

22. I. $x^2 - 25x + 114 = 0$ II. $y^2 - 10y + 24 = 0$

- A. if $x > y$ B. if $x < y$ C. if $x \geq y$ D. if $x \leq y$
E. if $x = y$ or relationship between x and y can't be established

23. I. $\frac{4}{\sqrt{x}} + \frac{6}{\sqrt{x}} = 5\sqrt{x}$ II. $y^2 + \sqrt{256} = \sqrt{625}$

- A. if $x > y$ B. if $x < y$ C. if $x \leq y$
D. if $x = y$ or relationship between x and y can't be established

24. I. $x^2 - 7\sqrt{3}x + 36 = 0$ II. $y^2 - 11\sqrt{3}y + 84 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$
D. if $x < y$ E. if $x = y$ or relationship between x and y can't be established

25. I. $x^2 = 361$ II. $y^3 = 7269 + 731$

- A. if $x > y$ B. if $x \leq y$ C. if $x < y$
D. if $x \geq y$ E. if $x = y$ or relationship between x and y can't be established

26. I. $x^2 + 5x + 6 = 0$ II. $y^2 - 4y - 12 = 0$

- A. if $x > y$ B. if $x \leq y$ C. if $x \geq y$
D. if $x = y$ or relationship between x and y can't be established E. if $x < y$

27. I. $25x^2 - 90x + 72 = 0$

II. $y^2 + 26y + 168 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

28. I. $3x^2 - 8x - 16 = 0$

II. $3y^2 - 19y + 28 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

29. I. $12x^2 - 4x - 5 = 0$

II. $8y^2 - 4y - 4 = 0$

- A. if $x > y$
B. if $x < y$
C. if $x = y$
D. if $x \geq y$
E. if $x \leq y$ or no relationship can be established between x and y .

30. I. $6x^2 - 13x - 44 = 0$

II. $4y^2 - 17y - 42 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

31. I. $3x + 5y = 34.5$

II. $4x - 9y = -1$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

32. I. $35x^2 + 4x - 63 = 0$

II. $7y^2 - 4y - 20 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

33. I. $x^2 - 1089 = 0$

II. $3y^2 - 363 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

34. I. $x^2 - 4\sqrt{7}x + 21 = 0$

II. $2y^2 - 8\sqrt{5}y - 50 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

35. I. $3x^2 - 8x - 16 = 0$

II. $3y^2 - 19y + 28 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

36. I. $3x^2 - 5x - 12 = 0$

II. $2y^2 + 15y + 25 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

37. I. $12x^2 - 4x - 5 = 0$

II. $8y^2 - 4y - 4 = 0$

- A. if $x > y$
B. if $x < y$
C. if $x = y$
D. if $x \geq y$
E. if $x \leq y$ or no relationship can be established between x and y .

38. I. $2x + 3y = 77$

II. $3x + 5y = 124$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

39. I. $x^2 - 4(\sqrt{2} + \sqrt{5})x + 16\sqrt{10} = 0$

II. $y^2 - 5(\sqrt{3} + 2\sqrt{2})y + 50\sqrt{6} = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

40. I. $x^2 - 4\sqrt{3}x + 9 = 0$

II. $y^2 - \sqrt{3}y - 18 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

41. I. $x^2 - 9x + 20 = 0$

II. $2y^2 - 15y + 28 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

42. I. $x^2 - x - 20 = 0$

II. $y^2 + y - 30 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

43. I. $x^2 - 9x + 18 = 0$

II. $y^2 - 9\sqrt{2}y + 36 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

44. I. $x^2 - 9 = 0$

II. $2y^2 + 13y + 21 = 0$

- A. if $x > y$
B. if $x \leq y$
C. if $x \geq y$
D. if $x < y$
E. if $x = y$ or relationship between x and y can't be established

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45. I. $5x^2 + 11x - 12 = 0$

II. $4y^2 - 13y - 12 = 0$

A. if $x > y$

B. if $x \leq y$

C. if $x \geq y$

D. if $x < y$

E. if $x = y$ or relationship between x and y can't be established

46. I. $x^2 + 16x + 63 = 0$

II. $y^2 + 13y + 42 = 0$

A. if $x > y$

B. if $x \leq y$

C. if $x \geq y$

D. if $x < y$

E. if $x = y$ or relationship between x and y can't be established

47. I. $2x^2 + 3x - 20 = 0$

II. $2y^2 + 15y + 28 = 0$

A. if $x > y$

B. if $x \leq y$

C. if $x \geq y$

D. if $x < y$

E. if $x = y$ or relationship between x and y can't be established

48. I. $x^2 - 13.5x + 38 = 0$

II. $y^2 - 1.5y - 10 = 0$

A. if $x > y$

B. if $x \leq y$

C. if $x \geq y$

D. if $x < y$

E. if $x = y$ or relationship between x and y can't be established

49. I. $x^2 + 11x + 30 = 0$

II. $y^2 + y - 20 = 0$

A. if $x > y$

B. if $x \leq y$

C. if $x \geq y$

D. if $x < y$

E. if $x = y$ or relationship between x and y can't be established

50. I. $4x^2 - 216 = 0$

II. $5y^3 - 810\sqrt{6} = 0$

A. if $x > y$

B. if $x \leq y$

C. if $x \geq y$

D. if $x < y$

E. if $x = y$ or relationship between x and y can't be established

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CORRECT OPTIONS:

1	2	3	4	5	6	7	8	9	10
E	A	B	E	E	E	A	D	C	D
11	12	13	14	15	16	17	18	19	20
D	D	E	E	D	B	C	E	E	D
21	22	23	24	25	26	27	28	29	30
A	C	D	B	A	B	A	E	E	E
31	32	33	34	35	36	37	38	39	40
A	E	E	E	E	A	E	D	E	E
41	42	43	44	45	46	47	48	49	50
C	E	E	C	E	B	E	C	B	B

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EXPLANATIONS:

1. I. $x^3 - 4913 = 0$
or, $x^3 = 4913$
 $x = 17$

II. $y^2 = 361$
or, $y = \pm 19$

While comparing the values of x and y, one root value of y lies between the root values of x
Hence, option E is correct.

2. I. $x^2 = 361$
 $x = \pm 19$

II. $y^3 = 7269 + 731$
 $y^3 = 8000$
 $y = 20$

$x < y$

Hence, option A is correct.

3. I. $15x^2 + x - 6 = 0$
 $15x^2 + 10x - 9x - 6 = 0$
 $5x(3x + 2) - 3(3x + 2) = 0$
 $(5x - 3)(3x + 2) = 0$
 $x = \frac{3}{5}, -\frac{2}{3}$

II. $5y^2 - 23y + 12 = 0$
 $5y^2 - 20y - 3y + 12 = 0$
 $5y(y - 4) - 3(y - 4) = 0$
 $(y - 4)(5y - 3) = 0$
 $y = 4, \frac{3}{5}$

$x \leq y$

Hence, option B is correct.



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4. I. $x^3 - 2744 = 0$

$$x^3 = 2744$$

$$x = 14$$

II. $y^2 - 256 = 0$

$$y^2 = 256$$

$$y = \pm 16$$

While comparing the values of x and y, one root value of x lies between the root values of y.

Hence, option E is correct.

5. I. $x^2 - 8x - 20 = 0$

$$\Rightarrow x^2 - 10x + 2x - 20 = 0$$

$$\Rightarrow x(x - 10) + 2(x - 10) = 0$$

$$\Rightarrow (x - 10)(x + 2) = 0$$

Then, $x = + 10$ or $x = - 2$

II. $3y^2 - 60y + 297 = 0$

$$\Rightarrow y^2 - 20y + 99 = 0$$
 [Dividing both sides by 3]

$$\Rightarrow y^2 - 11y - 9y + 99 = 0$$

$$\Rightarrow y(y - 11) - 9(y - 11) = 0$$

$$\Rightarrow (y - 11)(y - 9) = 0$$

Then, $y = + 11$ or $y = + 9$

So, when $x = + 10$, $x < y$ for $y = + 11$ and $x > y$ for $y = + 9$

And when $x = - 2$, $x < y$ for $y = + 11$ and $x < y$ for $y = + 9$

∴ So, we can observe that one root value of x lies between the root values of y. Therefore, the relation between x and y can't be determined.

Hence, option (E) is correct.

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6. I. $2x^2 + 9x + 7 = 0$
or, $2x^2 + 2x + 7x + 7 = 0$
or, $2x(x + 1) + 7(x + 1) = 0$
or, $(2x + 7)(x + 1) = 0$
 $\therefore x = -1, -\frac{7}{2}$

II. $y^2 + 4y + 4 = 0$
or, $y^2 + 2y + 2y + 4 = 0$
or, $y(y + 2) + 2(y + 2) = 0$
or, $(y + 2)(y + 2) = 0$
 $\therefore y = -2, -2$

Hence, relationship can't be established between x and y.

Therefore, Option E is correct.

7. I. $x^2 - 7x + 12 = 0$
or, $x^2 - 4x - 3x + 12 = 0$
or, $x(x - 4) - 3(x - 4) = 0$
or, $x(x - 4) - 3(x - 4) = 0$
or, $(x - 4)(x - 3) = 0$
 $\therefore x = 3, 4$

II. $3y^2 - 11y + 10 = 0$
or, $3y^2 - 6y - 5y + 10 = 0$
or, $3y(y - 2) - 5(y - 2) = 0$
or, $(3y - 5)(y - 2) = 0$
 $\therefore y = 2, \frac{5}{3}$

Hence, $x > y$

Hence, option A is correct.



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8. I. $2x^2 + 15x + 28 = 0$
or, $2x^2 + 8x + 7x + 28 = 0$
or, $2x(x + 4) + 7(x + 4) = 0$
or, $(2x + 7)(x + 4) = 0$
 $\therefore x = -4, -\frac{7}{2}$

II. $2y^2 + 13y + 21 = 0$
or, $2y^2 + 6y + 7y + 21 = 0$
or, $2y(y + 3) + 7(y + 3) = 0$
or, $(2y + 7)(y + 3) = 0$
 $\therefore y = -3, -\frac{7}{2}$

Hence, $x \leq y$.
Therefore, Option D is the correct answer.

9. I. $x^2 - 8x + 15 = 0$
or, $x^2 - 5x - 3x + 15 = 0$
or, $x(x - 5) - 3(x - 5) = 0$
or, $(x - 5)(x - 3) = 0$
 $\therefore x = 5, 3$

II. $y^2 - 12y + 36 = 0$
or, $y^2 - 6y - 6y + 36 = 0$
or, $y(y - 6) - 6(y - 6) = 0$
or, $(y - 6)(y - 6) = 0$
 $\therefore y = 6, 6$

Hence, $x < y$.
Hence, option C is correct.

10. I. $x^2 + 9x + 20 = 0$
or, $x^2 + 4x + 5x + 20 = 0$
or, $x(x + 4) + 5(x + 4) = 0$
or, $(x + 4)(x + 5) = 0$
 $x = -4, -5$

II. $y^2 = 16$
 $y = \sqrt{16} = \pm 4$

While comparing the x and y values, we got one value of x is equal to y and other values is less than the root values of y.
Hence, $x \leq y$.
Hence, option D is correct.

$$11. \quad 1. x^2 + (343)^{1/3} = 56$$

$$x^2 + 7 = 56$$

$$x^2 = 49$$

$$\therefore x = \sqrt{49} = \pm 7$$

$$\text{II. } (y)^{4/3} \times (y)^{5/3} - 295 = 217$$

$$(y)^3 = 217 + 295$$

$$(y)^3 = 512 = (8)^3$$

$$\text{or, } y = 8$$

Here, $x < y$

Hence, option D is correct.

12. $5x + 4y = 8$ (i) $\times 3$

$$15x + 12y = 24 \quad \dots \dots \text{(iii)}$$

$$15x + 10y = 20 \quad \dots\dots\dots(iv)$$

- - -

34

1

Putting the value of y in (i), we get

$$5x + 8 = 8$$

$$5x = 0$$

$$\therefore x = 0$$

Here, $x < y$

Hence, option D is correct.

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13. I. $x^2 + 8 = 6x$
 $x^2 - 6x + 8 = 0$
 $x^2 - 4x - 2x + 8 = 0$
 $x(x - 4) - 2(x - 4) = 0$
 $(x - 2)(x - 4) = 0$
 $\therefore x = 2, 4$

II. $y^2 - 8y + 15 = 0$
 $y^2 - 5y - 3y + 15 = 0$
 $y(y - 5) - 3(y - 5) = 0$
 $(y - 3)(y - 5) = 0$
 $y = 3, 5$

Here, while comparing the root values of x and y, we find that one root value of y lies between the value of x. Therefore, no relationship between x and y can be established

Hence, option E is correct.

14. I. $\sqrt{49} + \sqrt{x + 15} = \sqrt{169}$

$7 + \sqrt{x + 15} = 13$

$(\sqrt{x + 15})^2 = (6)^2$

$x + 15 = 36$

$\therefore x = 36 - 15 = 21$

II. $y^2 - 212 = 364$

$y^2 = 364 + 212$

$y^2 = 576$

$y = \pm 24$

Here, relationship between x and y cannot be established

Hence, option E is correct.

15.

$$\text{I. } x^2 - \frac{(10)^{5/2}}{\sqrt{x}} = 0$$

$$x^{2+1/2} - (10)^{5/2} = 0$$

$$(x)^{5/2} = (10)^{5/2}$$

$$x = 10$$

$$\text{II. } \frac{18}{\sqrt{y}} - \sqrt{y} = \frac{7}{\sqrt{y}}$$

$$18 - y = 7$$

$$y = 11$$

Here, $x < y$

Hence, option D is correct.

16.

$$\text{I. } 2x^2 + 7x + 5 = 0$$

$$\Rightarrow 2x^2 + 2x + 5x + 5 = 0$$

$$\Rightarrow 2x(x+1) + 5(x+1) = 0$$

$$\Rightarrow (2x+5)(x+1) = 0$$

$$x = -2.5, -1$$

$$\text{II. } 3y^2 + 5y + 2 = 0$$

$$\Rightarrow 3y^2 + 3y + 2y + 2 = 0$$

$$\Rightarrow 3y(y+1) + 2(y+1) = 0$$

$$\Rightarrow (3y+2)(y+1) = 0$$

$$y = -0.66, -1$$

For $x = -2.5$ and $y = -0.66, -1$ $x < y$

For $x = -1$ and $y = -0.66, -1$ $x \leq y$

Hence x is either less than or equal to y .

Hence, option B is correct.

17. I. $x^2 + 6x - 112 = 0$

$$x^2 + 14x - 8x - 112 = 0$$

$$x(x+14) - 8(x+14) = 0$$

$$(x+14)(x-8) = 0$$

$$x = 8, -14$$

II. $y^2 + 22y + 112 = 0$

$$y^2 + 8y + 14y + 112 = 0$$

$$y(y+8) + 14(y+8) = 0$$

$$(y+8)(y+14) = 0$$

$$y = -8, -14$$

For, $x = -14$ and $y = -8$

$$x < y$$

For, $x = -14$ and $y = -14$

$$x = y$$

But for $x = 8$ and $y = -8$ and -14

$$x > y$$

Therefore, relationship can't be established

Hence, option E is correct.

18. I. $2x^2 - 13x + 18 = 0$

$$\Rightarrow 2x^2 - 4x - 9x + 18 = 0$$

$$\Rightarrow 2x(x-2) - 9(x-2) = 0$$

$$\Rightarrow (2x-9)(x-2) = 0$$

$$x = 4.5, 2$$

II. $y^2 - 7y + 12 = 0$

$$\Rightarrow y^2 - 4y - 3y + 12 = 0$$

$$\Rightarrow y(y-4) - 3(y-4) = 0$$

$$\Rightarrow (y-3)(y-4) = 0$$

$$y = 4, 3$$

For $x = 4.5$ and $y = 4, 3$ $x > y$

For $x = 2$ and $y = 4, 3$ $x < y$

Hence, no relationship can be established

Hence, option E is correct.

19. I. $x^2 + 6x + 9 = 0$

$$\Rightarrow x^2 + 3x + 3x + 9 = 0$$

$$\Rightarrow x(x+3) + 3(x+3) = 0$$

$$\Rightarrow (x+3)(x+3) = 0$$

$$x = -3, -3$$

II. $y^2 - y - 20 = 0$

$$\Rightarrow y^2 - 5y + 4y - 20 = 0$$

$$\Rightarrow y(y-5) + 4(y-5) = 0$$

$$\Rightarrow (y+4)(y-5) = 0$$

$$y = -4, 5$$

For $x = -3$ and $y = -4$, $x > y$

For $x = -3$ and $y = 5$, $x < y$

Hence, no relationship can be established

Hence, option E is correct.

20. I. $3x^2 - 10x + 8 = 0$

$$\Rightarrow 3x^2 - 6x - 4x + 8 = 0$$

$$\Rightarrow 3x(x-2) - 4(x-2) = 0$$

$$\Rightarrow (3x-4)(x-2) = 0$$

$$x = 4/3, 2$$

II. $2y^2 - 19y + 35 = 0$

$$\Rightarrow 2y^2 - 14y - 5y + 35 = 0$$

$$\Rightarrow 2y(y-7) - 5(y-7) = 0$$

$$\Rightarrow (2y-5)(y-7) = 0$$

$$y = 2.5, 7$$

Hence, $x < y$

Hence, option D is correct.



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21. I. $x^2 - 3 = 2x$
 $\therefore x^2 - 2x - 3 = 0$
 $\therefore x^2 - 3x + x - 3 = 0$
 $\therefore (x + 1)(x - 3) = 0$
 $\therefore x = 3 \text{ or } x = -1$

II. $y^2 + 5y + 6 = 0$
 $\therefore y^2 + 3y + 2y + 6 = 0$
 $\therefore (y + 3)(y + 2) = 0$
 $\therefore y = -3 \text{ or } y = -2$

For both values of x, $x > y$

Hence, option A is correct

22. I. $x^2 - 25x + 114 = 0$
 $\therefore x^2 - 19x - 6x + 114 = 0$
 $\therefore (x - 6)(x - 19) = 0$
 $\therefore x = 19 \text{ or } x = 6$

II. $y^2 - 10y + 24 = 0$
 $\therefore y^2 - 6y - 4y + 24 = 0$
 $\therefore (y - 4)(y - 6) = 0$
 $\therefore y = 6 \text{ or } y = 4$

When $x = 19$, $x > y$

When $x = 6$, $x \geq y$

Hence, $x \geq y$

Hence, option C is correct.

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23. I. $\frac{4}{\sqrt{x}} + \frac{6}{\sqrt{x}} = 5\sqrt{x}$

or, $\frac{4+6}{\sqrt{x}} = 5\sqrt{x}$

$10 = 5x$

$x = 2$

II. $y^2 + \sqrt{256} = \sqrt{625}$

$y^2 + 16 = 25$

$y^2 = 25 - 16$

$y^2 = 9$

$y = \pm 3$

While comparing the values of x and y, one root value of y lies between the two root values of x
Hence, option D is correct.

24. I. $x^2 - 7\sqrt{3}x + 36 = 0$

$\Rightarrow x^2 - 4\sqrt{3}x - 3\sqrt{3}x + 36 = 0$

$\Rightarrow x(x - 4\sqrt{3}) - 3\sqrt{3}(x - 4\sqrt{3}) = 0$

$\Rightarrow (x - 3\sqrt{3})(x - 4\sqrt{3}) = 0$

$\therefore x = 3\sqrt{3}, 4\sqrt{3}$

II. $y^2 - 11\sqrt{3}y + 84 = 0$

$\Rightarrow y^2 - 4\sqrt{3}y - 7\sqrt{3}y + 84 = 0$

$\Rightarrow y(y - 4\sqrt{3}) - 7\sqrt{3}(y - 4\sqrt{3}) = 0$

$\Rightarrow (y - 7\sqrt{3})(y - 4\sqrt{3}) = 0$

$\therefore y = 7\sqrt{3}, 4\sqrt{3}$

Now, While comparing the root values of x and y

$x \quad y$

$3\sqrt{3} < 4\sqrt{3}$

$3\sqrt{3} < 7\sqrt{3}$

$4\sqrt{3} = 4\sqrt{3}$

$4\sqrt{3} < 7\sqrt{3}$

Here, $x \leq y$

Hence, option (B) is correct.

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25. I. $x^2 = 361$

$x = \pm 19$

II. $y^3 = 7269 + 731$

$y^3 = 8000$

$y = 20$

$x < y$

Hence, option A is correct.

26. I. $x^2 + 5x + 6 = 0$

$\Rightarrow x^2 + 3x + 2x + 6 = 0$

$\Rightarrow x(x+3) + 2(x+3) = 0$

$\Rightarrow (x+2)(x+3) = 0$

$\therefore x = -2, -3$

II. $y^2 - 4y - 12 = 0$

$\Rightarrow y^2 - 6y + 2y - 12 = 0$

$\Rightarrow y(y-6) + 2(y-6) = 0$

$\Rightarrow (y+2)(y-6) = 0$

$\therefore y = -2, +6$

Now, While comparing the root values of x and y

$x \quad y$

$-2 = -2$

$-2 < +6$

$-3 < -2$

$-3 < +6$

Here, $x \leq y$

Hence, option (B) is correct.

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27. I. $25x^2 - 90x + 72 = 0$
 $\Rightarrow (5x - 6)(5y - 12) = 0$
 $\Rightarrow x = \frac{6}{5}, \frac{12}{5}$

II. $y^2 + 26y + 168 = 0$
 $\Rightarrow (y + 12)(y + 14) = 0$
 $\Rightarrow y = -12, -14$

Hence, $x > y$

Hence, option A is correct.

28. I. $3x^2 - 8x - 16 = 0$
 $\Rightarrow (3x + 4)(x - 4) = 0$
 $\Rightarrow x = -\frac{4}{3}, 4$

II. $3y^2 - 19y + 28 = 0$
 $\Rightarrow (3y - 7)(y - 4) = 0$
 $\Rightarrow y = \frac{7}{3}, 4$

Hence, relationship between x and y cannot be determined.

Hence, option E is correct.

29. I. $12x^2 - 4x - 5 = 0$
 $\Rightarrow 12x^2 - 10x + 6x - 5 = 0$
 $\Rightarrow 6x(2x + 1) - 5(2x + 1) = 0$
 $\Rightarrow (6x - 5)(2x + 1) = 0$
 $\therefore x = \frac{5}{6} \text{ or } \frac{-1}{2}$

II. $8y^2 - 4y - 4 = 0$
 $\Rightarrow 8y^2 - 8y + 4y - 4 = 0$
 $\Rightarrow 8y(y - 1) + 4(y - 1) = 0$
 $\Rightarrow (8y + 4)(y - 1) = 0$
 $\therefore y = -\frac{1}{2} \text{ or } y = 1$

So, here we can't say anything.

Hence, option E is correct.

30. I. $6x^2 - 13x - 44 = 0$

$$6x^2 - 24x + 11x - 44 = 0$$

$$6x(x - 4) + 11(x - 4) = 0$$

$$(6x + 11)(x - 4) = 0$$

$$x = 4, -\frac{11}{6}$$

II. $4y^2 - 17y - 42 = 0$

$$4y^2 - 24y + 7y - 42 = 0$$

$$4y(y - 6) + 7(y - 6) = 0$$

$$(4y + 7)(y - 6) = 0$$

$$y = 6, -\frac{7}{4}$$

Hence Relationship cannot be established.

Therefore, option E is correct.

31. Multiplying equation (I) by 4 and equation (II) by 3 we get,

$$12x + 20y = 138$$

$$12x - 27y = -3$$

Subtracting both equations:

$$47y = 141$$

$$y = 3$$

$$4x - 9y = -1$$

$$4x - 9(3) = -1$$

$$4x - 27 = -1$$

$$4x = 27 - 1$$

$$4x = 26$$

$$x = \frac{26}{4} = \frac{13}{2}$$

$$x > y$$

Hence, option A is correct.



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32. I. $35x^2 + 4x - 63 = 0$

$$35x^2 + 49x - 45x - 63 = 0$$

$$7x(5x + 7) - 9(5x + 7) = 0$$

$$(7x - 9)(5x + 7) = 0$$

$$x = \frac{9}{7}, -\frac{7}{5}$$

II. $7y^2 - 4y - 20 = 0$

$$7y^2 - 14y + 10y - 20 = 0$$

$$7y(y - 2) + 10(y - 2) = 0$$

$$(y - 2)(7y + 10) = 0$$

$$y = 2, -\frac{10}{7}$$

Therefore, relationship can't be established

Hence, option E is correct.

33. I. $x^2 - 1089 = 0$,

$$x = \pm 33$$

II. $3y^2 - 363 = 0$,

$$3y^2 = 363,$$

$$y^2 = 121$$

$$y = \pm 11$$

Therefore, relationship cannot be established

Hence, option E is correct.

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34. I. $x^2 - 4\sqrt{7}x + 21 = 0$

$$\Rightarrow x^2 - \sqrt{7}x - 3\sqrt{7}x + 21 = 0$$

$$\Rightarrow x(x - \sqrt{7}) - 3\sqrt{7}(x - \sqrt{7}) = 0$$

$$\Rightarrow (x - \sqrt{7})(x - 3\sqrt{7}) = 0$$

$$\Rightarrow x = \sqrt{7}, 3\sqrt{7}$$

II. $2y^2 - 8\sqrt{5}y - 50 = 0$

$$\Rightarrow 2y^2 - 8\sqrt{5}y - 50 = 0$$

Taking 2 as a common term, we get

$$\Rightarrow y^2 - 4\sqrt{5}y - 25 = 0$$

$$\Rightarrow y^2 + \sqrt{5}y - 5\sqrt{5}y - 25 = 0$$

$$\Rightarrow y(y + \sqrt{5}) - 5\sqrt{5}(y + \sqrt{5}) = 0$$

$$\Rightarrow (y + \sqrt{5})(y - 5\sqrt{5}) = 0$$

$$\Rightarrow y = -\sqrt{5}, 5\sqrt{5}$$

While comparing the root values of x and y, we find that root values of y lies between the x's root values.

Therefore, relationship between x and y can't be determined.

Hence, option E is correct.

35. I. $3x^2 - 8x - 16 = 0$

$$\Rightarrow (3x + 4)(x - 4) = 0$$

$$\Rightarrow x = -\frac{4}{3}, 4$$

II. $3y^2 - 19y + 28 = 0$

$$\Rightarrow (3y - 7)(y - 4) = 0$$

$$\Rightarrow y = \frac{7}{3}, 4$$

Hence, relationship between x and y cannot be determined.

Hence, option E is correct.



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36. I. $3x^2 - 5x - 12 = 0$
 $\Rightarrow (3x + 4)(x - 3) = 0$
 $\Rightarrow x = -\frac{4}{3}, 3$

II. $2y^2 + 15y + 25 = 0$
 $\Rightarrow (2y + 5)(y + 5) = 0$
 $\Rightarrow y = -\frac{5}{2}, -5$

Hence, $x > y$

Hence, option A is correct.

37. I. $12x^2 - 4x - 5 = 0$
 $\Rightarrow 12x^2 - 10x + 6x - 5 = 0$
 $\Rightarrow 6x(2x + 1) - 5(2x + 1) = 0$
 $\Rightarrow (6x - 5)(2x + 1) = 0$
 $\therefore x = \frac{5}{6} \text{ or } x = -\frac{1}{2}$

II. $8y^2 - 4y - 4 = 0$
 $\Rightarrow 8y^2 - 8y + 4y - 4 = 0$
 $\Rightarrow 8y(y - 1) + 4(y - 1) = 0$
 $\Rightarrow (8y + 4)(y - 1) = 0$

$$\therefore y = -\frac{1}{2} \text{ or } y = 1$$

So, here we can't say anything.

Hence, option E is correct.

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38. We have

Multiplying eq. (i) by 3 and eq. (ii) by 2, we get

$$6x + 10y = 246 \dots\dots\dots(iv)$$

Subtracting eq. (iv) from (iii) we get

$$y = 17$$

putting value of $y = 17$ in (i), we get

$$\Rightarrow 2x + 3 \times 17 = 77$$

$$\Rightarrow 2x = 51$$

$$\therefore x = 13$$

Here, $x < y$.

Hence, option (D) is correct.

39.

$$1. x^2 - 4\sqrt{2}x - 4\sqrt{5}x + 16\sqrt{10} = 0$$

$$\Rightarrow x(x - 4\sqrt{2}) - 4\sqrt{5}(x - 4\sqrt{2}) = 0$$

$$\Rightarrow (x - 4\sqrt{5})(x - 4\sqrt{2}) = 0$$

$$\therefore x = 4\sqrt{2}, 4\sqrt{5}$$

$$\text{II. } y^2 - 5(\sqrt{3} + 2\sqrt{2})y + 50\sqrt{6} = 0$$

$$\Rightarrow v^2 - 5\sqrt{3}v - 10\sqrt{2}v + 50\sqrt{6} = 0$$

$$\Rightarrow \sqrt{v}(\sqrt{v} - 5\sqrt{3}) - 10\sqrt{2}(\sqrt{v} - 5\sqrt{3}) = 0$$

$$\Rightarrow (y - 10\sqrt{2})(y - 5\sqrt{3}) = 0$$

$$\therefore v = 10\sqrt{2}, 5\sqrt{3}$$

on comparing the root value of x and y

x y

$$4\sqrt{2} < 10\sqrt{2}$$

$$4\sqrt{2} < 5\sqrt{3}$$

$$4\sqrt{5} < 10\sqrt{2}$$

$$4\sqrt{5} > 5\sqrt{3}$$

Here, Either $x = y$ or relation can't be established.

Hence, option E is correct.

40. I. $x^2 - 4\sqrt{3}x + 9 = 0$

$$x^2 - 3\sqrt{3}x - \sqrt{3}x + 9 = 0$$

$$x(x - 3\sqrt{3}) - \sqrt{3}(x - 3\sqrt{3}) = 0$$

$$(x - 3\sqrt{3})(x - \sqrt{3}) = 0$$

$$x = \sqrt{3}, 3\sqrt{3}$$

II. $y^2 - \sqrt{3}y - 18 = 0$

$$y^2 + 2\sqrt{3}y - 3\sqrt{3}y - 18 = 0$$

$$y(y + 2\sqrt{3}) - 3\sqrt{3}(y + 2\sqrt{3}) = 0$$

$$(y + 2\sqrt{3})(y - 3\sqrt{3}) = 0$$

$$y = -2\sqrt{3}, 3\sqrt{3}$$

For $x = 3\sqrt{3}$, and $y = 3\sqrt{3}$ $x = y$

For $x = 3\sqrt{3}$, and $y = -2\sqrt{3}$ $x > y$

For $x = \sqrt{3}$, and $y = -2\sqrt{3}$ $x > y$

For $x = \sqrt{3}$, and $y = 3\sqrt{3}$ $x < y$

Therefore, relationship can't be established

Hence, option E is correct.

41. I. $x^2 - 9x + 20 = 0$

$$x^2 - 5x - 4x + 20 = 0$$

$$x(x - 5) - 4(x - 5) = 0$$

$$(x - 5)(x - 4) = 0$$

$$x = 5, 4$$

II. $2y^2 - 15y + 28 = 0$

$$2y^2 - 8y - 7y + 28 = 0$$

$$2y(y - 4) - 7(y - 4) = 0$$

$$(y - 4)(2y - 7) = 0$$

$$y = 4, \frac{7}{2}$$

For $x = 5$, and $y = 4, \frac{7}{2}$ $x > y$

For $x = 4$, and $y = 4$ $x = y$

For $x = 4$, and $y = 3.5$ $x > y$

Therefore, $x \geq y$

Hence, option C is correct.

42. I. $x^2 - x - 20 = 0$

$$x^2 - 5x + 4x - 20 = 0$$

$$x(x - 5) + 4(x - 5) = 0$$

$$(x - 5)(x + 4) = 0$$

$$x = 5, -4$$

II. $y^2 + y - 30 = 0$

$$y^2 + 6y - 5y - 30 = 0$$

$$y(y + 6) - 5(y + 6) = 0$$

$$(y - 5)(y + 6) = 0$$

$$y = -6, 5$$

For $x = 5$, and $y = 5, -6$, $x \geq y$

For $x = -4$, and $y = -6$, $x > y$

For $x = -4$, and $y = 5$, $x < y$

Therefore, relationship can't be established

Hence, option E is correct.

43. I. $x^2 - 9x + 18 = 0$

$$x^2 - 6x - 3x + 18 = 0$$

$$x(x - 6) - 3(x - 6) = 0$$

$$(x - 6)(x - 3) = 0$$

$$x = 3, 6$$

II : $y^2 - 9\sqrt{2}y + 36 = 0$

$$y^2 - 3\sqrt{2}y - 6\sqrt{2}y + 36 = 0$$

$$y(y - 3\sqrt{2}) - 6\sqrt{2}(y - 3\sqrt{2}) = 0$$

$$(y - 6\sqrt{2})(y - 3\sqrt{2}) = 0$$

$$y = 6\sqrt{2}, 3\sqrt{2}$$

For $x = 3$ and $y = 6\sqrt{2}$ or $3\sqrt{2}$ $x < y$

For $x = 6$ and $y = 6\sqrt{2}$ $x < y$

For $x = 6$ and $y = 3\sqrt{2}$ $x > y$

Therefore, relationship can't be established

Hence, option E is correct.

44. I: $x^3 - 9 = 0$

$x = 3, -3$

II: $2y^2 + 13y + 21 = 0$

$2y^2 + 7y + 6y + 21 = 0$

$y(2y + 7) + 3(2y + 7) = 0$

$(y + 3)(2y + 7) = 0$

$y = -3, -\frac{7}{2} = -3.5$

For $x = -3$ and $y = -3$, $x = y$

For $x = -3$ and $y = -3.5$ $x > y$

For $x = 3$, and $y = -3$ or -3.5 $x > y$

Therefore, $x \geq y$

Hence, option C is correct.

45. I. $5x^2 + 11x - 12 = 0$

$\Rightarrow 5x^2 + 15x - 4x - 12 = 0$

$\Rightarrow 5x(x + 3) - 4(x + 3) = 0$

$\Rightarrow (5x - 4)(x + 3) = 0$

$\Rightarrow x = \frac{4}{5}, -3$

II. $4y^2 - 13y - 12 = 0$

$\Rightarrow 4y^2 - 16y + 3y - 12 = 0$

$\Rightarrow 4y(y - 4) + 3(y - 4) = 0$

$\Rightarrow (4y + 3)(y - 4) = 0$

$\Rightarrow y = -\frac{3}{4}, 4$

While comparing the root values of x and y, we find that one root value of y lies between the root values of x.

Therefore, relationship between x and y can't be determined.

Hence, option E is correct.



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46. I. $x^2 + 16x + 63 = 0$

$$x^2 + 9x + 7x + 63 = 0$$

$$x(x + 9) + 7(x + 9) = 0$$

$$(x + 7)(x + 9) = 0$$

$$x = -7, -9$$

II. $y^2 + 13y + 42 = 0$

$$y^2 + 7y + 6y + 42 = 0$$

$$y(y + 7) + 6(y + 7) = 0$$

$$(y + 7)(y + 6) = 0$$

$$y = -7, -6$$

For $x = -7$, and $y = -7$, $x = y$

For $x = -7$, or -9 and $y = -6$ $x < y$

For $x = -9$ and $y = -6$ $x < y$

Therefore, $x \leq y$

Hence, option B is correct.

47. I. $2x^2 + 3x - 20 = 0$

$$2x^2 + 8x - 5x - 20 = 0$$

$$2x(x + 4) - 5(x + 4) = 0$$

$$(2x - 5)(x + 4) = 0$$

$$x = 2.5, -4$$

II. $2y^2 + 15y + 28 = 0$

$$2y^2 + 8y + 7y + 28 = 0$$

$$2y(y + 4) + 7(y + 4) = 0$$

$$(2y + 7)(y + 4) = 0$$

$$y = -3.5, -4$$

For $x = -4$ and $y = -4$, $x = y$

For $x = 2.5$, and $y = -3.5$ or -4

$x > y$

For $x = -4$, and $y = -3.5$

$x < y$

Therefore, relationship can't be established

Hence, option E is correct.

48. I. $x^2 - 13.5x + 38 = 0$

$$x^2 - 9.5x - 4x + 38 = 0$$

$$x(x - 9.5) - 4(x - 9.5) = 0$$

$$(x - 9.5)(x - 4) = 0$$

$$x = 9.5, 4$$

II. $y^2 - 1.5y - 10 = 0$

$$y^2 - 4y + 2.5y - 10 = 0$$

$$y(y - 4) + 2.5(y - 4) = 0$$

$$(y - 4)(y + 2.5) = 0$$

$$y = 4, -2.5$$

For $x = 9.5 \quad x > y$

For $x = 4$, and $y = 4, \quad x = y$

Therefore, $x \geq y$

Hence, option C is correct.

49. I. $x^2 + 11x + 30 = 0$

$$x^2 + 5x + 6x + 30 = 0$$

$$x(x + 5) + 6(x + 5) = 0$$

$$(x + 6)(x + 5) = 0$$

$$x = -6, -5$$

II. $y^2 + y - 20 = 0$

$$y^2 + 5y - 4y - 20 = 0$$

$$y(y + 5) - 4(y + 5) = 0$$

$$(y - 4)(y + 5) = 0$$

$$y = -5, 4$$

For $x = -5$ and $y = -5, \quad x = y$

For $x = -6, y = -5$ or $4, \quad x < y$

Therefore, $x \leq y$

Hence, option B is correct.

50. I. $4x^2 - 216 = 0$

$$x^2 = 54$$

$$x = \pm 3 \times 6^{1/2}$$

II. $5y^3 - 810\sqrt{6} = 0$

$$y^3 = 162\sqrt{6} = 3\sqrt{6} \times 3\sqrt{6} \times 3 \times \sqrt{6}$$

$$y = 3\sqrt{6}$$

Hence, option B is correct.

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