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The Question Bank

Quadratic Equation Questions for IBPS RRB Scale I Pre, IBPS PO Pre, SBI PO Pre, IBPS Clerk Mains and SBI Clerk Mains.

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. $\frac{21}{\sqrt{x}} + \frac{11}{\sqrt{x}} = 7\sqrt{x}$ II. $2y^2 - 11y + 12 = 0$

- 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

2. I. $143x^2 + 43x - 66 = 0$ II. $33y^2 - 40y + 12 = 0$

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

3. I. $72x^2 - 101x + 35 = 0$ II. $45y^2 - 62y + 21 = 0$

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

4. I. $22x^2 + 6\sqrt{11}x - 8 = 0$ II. $3y^2 + 14y - 5 = 0$

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

5. I. $56x^2 + 15x - 56 = 0$ II. $7y^2 - 34y - 48 = 0$

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

6. I. $45x^2 + 17\sqrt{15}x + 24 = 0$ 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

7. 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 E. if $x \geq y$

8. I. $117x^2 + 128x + 35 = 0$

II. $39y^2 - 31y - 28 = 0$

- A. if $x > y$
D. if $x < y$

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

9. I. $36x^2 + 55x + 21 = 0$

II. $132y^2 - 17y - 30 = 0$

- A. if $x > y$
D. if $x \geq y$

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

10. I. $12x^2 - 29x + 15 = 0$

II. $54y^2 - 20\sqrt{18} + 33 = 0$

- A. if $x > y$
D. if $x = y$ or relationship between x and y can't be established

- B. if $x \leq y$
E. if $x < y$

11. I. $x^5 - 41x^3 + 400x = 0$

II. $y^2 - 14y + 30 = -18$

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

C. if $x \geq y$

D. if $x \leq y$

12. I. $x^2 - 3 = 2x$

II. $y^2 + 5y + 6 = 0$

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

C. if $x \geq y$

D. if $x \leq y$

13. I. $4x^3 + 24x^2 - 64x = 0$

II. $3y^2 + 39y + 126 = 0$

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

C. if $x \geq y$

D. if $x \leq y$

14. I. $x^2 - 25x + 114 = 0$

II. $y^2 - 10y + 24 = 0$

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

C. if $x \geq y$

D. if $x \leq y$

15. I. $48x^2 - 24x + 3 = 0$

II. $55y^2 + 53y + 12 = 0$

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

C. if $x \geq y$

D. if $x \leq y$

16. I. $45x^2 + 17\sqrt{15x} + 24 = 0$

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

- A. if $x > y$
B. if $x \leq y$
D. if $x < y$

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

17. 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
E. if $x \geq y$

18. 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

19. 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

20. 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 $x < y$

21. 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

22. I. $20x^2 - 108x + 144 = 0$

II. $8y^2 + 18y + 4 = 0$

- 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

23. 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

24. 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

25. I. $2x^2 + 5x + 2 = 0$

II. $6y^2 + 69y + 198 = 0$

- 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

26. I. $20x^2 + 93x + 99 = 0$ II. $16y^2 - 25 = 0$

- 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

27. 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 .

28. I. $x^2 - 52x + 667 = 0$ II. $y^2 - 60y + 899 = 0$

- 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. $2x + 3y = 77$ 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

30. I. $3x^2 - (6 + \sqrt{17})x + 2\sqrt{17} = 0$ II. $10y^2 - (15 + 2\sqrt{17})y + 3\sqrt{17} = 0$

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

32. I. $3x^2 + 19x + 30 = 0$ II. $3y^2 - 20y - 32 = 0$

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

34. I. $x^2 - 52x + 667 = 0$ II. $y^2 + 8y - 33 = 0$

- 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. $x^2 - 13\sqrt{2}x + 60 = 0$ II. $y^2 + 3\sqrt{5}y - 20 = 0$
- 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
-
- 36.** I. $10x^2 - 69x + 108 = 0$ II. $6y^2 - 47y + 77 = 0$
- 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. $5x^2 - 34x + 24 = 0$ II. $4y^2 - 13y + 9 = 0$
- 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 .
-
- 38.** I. $36x^2 - 196x - 11 = 0$ II. $4y^2 - 19y + 12 = 0$
- 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
-
- 39.** I. $6x^2 + 25x + 21 = 0$ II. $5y^2 - 176y - 333 = 0$
- 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. $x^2 = 5476$ II. $y^3 = 405224$
- 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. $25x^2 - 90x + 72 = 0$ 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
-
- 42.** I. $20x^2 - 108x + 144 = 0$ II. $8y^2 + 18y + 4 = 0$
- 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
-
- 43.** 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
-
- 44.** 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

45. I. $2x^2 + 5x + 2 = 0$

II. $6y^2 + 69y + 198 = 0$

- 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. $20x^2 + 93x + 99 = 0$

II. $16y^2 - 25 = 0$

- 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

47. 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 .

48. I. $x^2 - 52x + 667 = 0$

II. $y^2 - 60y + 899 = 0$

- 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. $2x + 3y = 77$

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

50. I. $3x^2 - (6 + \sqrt{17})x + 2\sqrt{17} = 0$

II. $10y^2 - (15 + 2\sqrt{17})y + 3\sqrt{17} = 0$

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



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Explanations:

1. I. $\frac{21}{\sqrt{x}} + \frac{11}{\sqrt{x}} = 7\sqrt{x}$

$$\frac{21 + 11}{\sqrt{x}} = 7\sqrt{x}$$

$$\frac{32}{\sqrt{x}} = 7\sqrt{x}$$

$$x = \frac{32}{7}$$

II. $2y^2 - 11y + 12 = 0$

$$2y^2 - 8y - 3y + 12 = 0$$

$$2y(y - 4) - 3(y - 4) = 0$$

$$(2y - 3)(y - 4) = 0$$

$$y = \frac{3}{2}, 4$$

$$x > y$$

Hence, option A is correct.

2. I. $143x^2 + 43x - 66 = 0$

$$\text{or, } 143x^2 + (121 - 78)x - 66 = 0$$

$$\text{or, } 143x^2 + 121x - 78x - 66 = 0$$

$$\text{or, } 11x(13x + 11) - 6(13x + 11) = 0$$

$$\text{or, } (13x + 11)(11x - 6) = 0$$

$$x = \frac{6}{11}, -\frac{11}{13}$$

II. $33y^2 - 40y + 12 = 0$

$$\text{or, } 33y^2 - (22 + 18)y + 12 = 0$$

$$\text{or, } 33y^2 - 22y - 18y + 12 = 0$$

$$\text{or, } 11y(3y - 2) - 6(3y - 2) = 0$$

$$\text{or, } (11y - 6)(3y - 2) = 0$$

$$y = \frac{6}{11}, \frac{2}{3}$$

$$x \leq y$$

Hence, option C is correct.

3. I. $72x^2 - 101x + 35 = 0$
or, $72x^2 - (56 + 45)x + 35 = 0$
or, $72x^2 - 56x - 45x + 35 = 0$
or, $8x(9x - 7) - 5(9x - 7) = 0$
 $(8x - 5)(9x - 7) = 0$

$$x = \frac{5}{8}, \frac{7}{9}$$

II. $45y^2 - 62y + 21 = 0$
or, $45y^2 - (35 + 27)y + 21 = 0$
or, $45y^2 - 35y - 27y + 21 = 0$
or, $5y(9y - 7) - 3(9y - 7) = 0$
 $(5y - 3)(9y - 7) = 0$

$$y = \frac{3}{5}, \frac{7}{9}$$

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

Hence, option C is correct.

4. I. $22x^2 + 6\sqrt{11x} - 8 = 0$
or, $22x^2 + (8\sqrt{11} - 2\sqrt{11})x - 8 = 0$
or, $22x^2 + 8\sqrt{11}x - 2\sqrt{11}x - 8 = 0$
or, $2\sqrt{11}x(\sqrt{11}x + 4) - 2(\sqrt{11}x + 4) = 0$
 $(2\sqrt{11}x - 2)(\sqrt{11}x + 4) = 0$

$$x = \frac{1}{11}, -\frac{4}{11}$$

II. $3y^2 + 14y - 5 = 0$
or, $3y^2 + (15 - 1)y - 5 = 0$
or, $3y^2 + 15y - y - 5 = 0$
or, $3y(y + 5) - 1(y + 5) = 0$
 $(3y - 1)(y + 5) = 0$

$$y = \frac{1}{3}, -5$$

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

Hence, option A is correct.

5. I. $56x^2 + 15x - 56 = 0$
or, $56x^2 + (64 - 49)x - 56 = 0$
or, $56x^2 + 64x - 49x - 56 = 0$
or, $8x(7x + 8) - 7(7x + 8) = 0$
 $(7x + 8)(8x - 7) = 0$
 $x = \frac{7}{8}, -\frac{8}{7}$

II. $7y^2 - 34y - 48 = 0$
or, $7y^2 - (42 - 8)y - 48 = 0$
or, $7y^2 - 42y + 8y - 48 = 0$
or, $7y(y - 6) + 8(y - 6) = 0$
 $(7y + 8)(y - 6) = 0$

$$y = -\frac{8}{7}, 6$$

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

Hence, option B is correct.

6. I. $45x^2 + 17\sqrt{15x} + 24 = 0$
 $45x^2 + 9\sqrt{15x} + 8\sqrt{15x} + 24 = 0$
 $3\sqrt{15x}(\sqrt{15x} + 3) + 8(\sqrt{15x} + 3) = 0$
 $(\sqrt{15x} + 3)(3\sqrt{15x} + 8) = 0$
 $x = -\frac{3}{\sqrt{15}}, -\frac{8}{3\sqrt{15}}$

II. $y^2 + 7y + 12 = 0$
 $y^2 + 4y + 3y + 12 = 0$
 $y(y + 4) + 3(y + 4) = 0$
 $(y + 4)(y + 3) = 0$
 $y = -4, -3$

$$x > y$$

Hence, option A is correct.

7. 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.

8. I. $117x^2 + 128x + 35 = 0$
 $117x^2 + 65x + 63x + 35 = 0$
 $13x(9x + 5) + 7(9x + 5) = 0$
 $(13x + 7)(9x + 5) = 0$
 $x = -\frac{7}{13}, -\frac{5}{9}$

II. $39y^2 - 31y - 28 = 0$
 $39y^2 - 52y + 21y - 28 = 0$
 $13y(3y - 4) + 7(3y - 4) = 0$
 $(3y - 4)(13y + 7) = 0$

$$y = \frac{4}{3}, -\frac{7}{13}$$

$$x \leq y$$

Hence, option B is correct.



9. I. $36x^2 + 55x + 21 = 0$
 $36x^2 + 28x + 27x + 21 = 0$
 $4x(9x + 7) + 3(9x + 7) = 0$
 $(9x + 7)(4x + 3) = 0$
 $x = -\frac{7}{9}, -\frac{3}{4}$

II. $132y^2 - 17y - 30 = 0$
 $132y^2 - 72y + 55y - 30 = 0$
 $12y(11y - 6) + 5(11y - 6) = 0$
 $(11y - 6)(12y + 5) = 0$

$$y = \frac{6}{11}, -\frac{5}{12}$$

$$x < y$$

Hence, option C is correct.

10. I. $12x^2 - 29x + 15 = 0$

$$12x^2 - 20x - 9x + 15 = 0$$

$$4x(3x - 5) - 3(3x - 5) = 0$$

$$(3x - 5)(4x - 3) = 0$$

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

II. $54y^2 - 20\sqrt{18y} + 33 = 0$

$$54y^2 - 11\sqrt{18y} - 9\sqrt{18y} + 33 = 0$$

$$\sqrt{18y}(3\sqrt{18y} - 11) - 3(3\sqrt{18y} - 11) = 0$$

$$(\sqrt{18y} - 3)(3\sqrt{18y} - 11) = 0$$

$$y = \frac{3}{18} = \frac{1}{\sqrt{2}}, \frac{11}{3\sqrt{18}} = \frac{11}{9\sqrt{2}}$$

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

Hence, option D is correct.

11. I. $x^5 - 41x^3 + 400x = 0$

$$\therefore x(x^4 - 41x^2 + 400) = 0$$

$$\therefore x = 0 \text{ or } x^4 - 41x^2 + 400 = 0$$

Let $x^2 = a$

$$\therefore a^2 - 41a + 400 = 0$$

$$\therefore a^2 - 25a - 16a + 400 = 0$$

$$\therefore (a - 16)(a - 25) = 0$$

$$\therefore a = 16 \text{ or } a = 25$$

$$\therefore x^2 = 16 \text{ or } x^2 = 25$$

$$\therefore x = \pm 4 \text{ or } x = \pm 5$$

$$\therefore x = -5 \text{ or } -4 \text{ or } 0 \text{ or } 4 \text{ or } 5$$

II. $y^2 - 14y + 30 = -18$

$$\therefore y^2 - 14y + 48 = 0$$

$$\therefore y^2 - 8y - 6y + 48 = 0$$

$$\therefore (y - 6)(y - 8) = 0$$

$$\therefore y = 6 \text{ or } y = 8$$

For both values of y, $x < y$

Hence, option B is correct.

12. 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

13. I. $4x^3 + 24x^2 - 64x = 0$
 $\therefore 4x(x^2 + 6x - 16) = 0$
 $\therefore 4x = 0 \text{ or } x^2 + 6x - 16 = 0$ (Here $4x = 0$ is nothing but $x = 0$)
 $\therefore x^2 + 6x - 16 = 0$
 $\therefore x^2 + 8x - 2x - 16 = 0 \therefore (x - 2)(x + 8) = 0$
 $\therefore x = 2 \text{ or } x = -8 \therefore x = -8, 0 \text{ or } 2$

II. $3y^2 + 39y + 126 = 0$
 $\therefore y^2 + 13y + 42 = 0$
 $\therefore y^2 + 7y + 6y + 42 = 0 \therefore (y + 7)(y + 6) = 0$
 $\therefore y = -7 \text{ or } y = -6$ When $x = -8, x < y$
When $x = 0 \text{ or } 2, x > y$
Hence, no relation can be established between x and y .
Hence, option E is correct.

14. 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.

15. $48x^2 - 24x + 3 = 0$ is of the form $ax^2 - bx + c = 0$

Both roots of this equation are positive i.e. $x > 0$

$$55y^2 + 53y + 12 = 0 \text{ is of the form } ay^2 + by + c = 0$$

Both roots of this equation are negative i.e. $y < 0$

Hence, $x > y$

Hence, option A is correct.

16. I. $45x^2 + 17\sqrt{15x} + 24 = 0$

$$45x^2 + 9\sqrt{15x} + 8\sqrt{15x} + 24 = 0$$

$$3\sqrt{15x}(\sqrt{15x} + 3) + 8(\sqrt{15x} + 3) = 0$$

$$(\sqrt{15x} + 3)(3\sqrt{15x} + 8) = 0$$

$$x = -3/\sqrt{15}, -8/3\sqrt{15}$$

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

$$y^2 + 4y + 3y + 12 = 0$$

$$y(y + 4) + 3(y + 4) = 0$$

$$(y + 4)(y + 3) = 0$$

$$y = -4, -3$$

$$x > y$$

Hence, option A is correct.

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

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

$$10 = 5x$$

$$x = 2$$

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.

18. 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

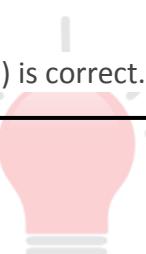
$$\begin{array}{ll} x & y \\ 3\sqrt{3} & < 4\sqrt{3} \\ 3\sqrt{3} & < 7\sqrt{3} \\ 4\sqrt{3} & = 4\sqrt{3} \\ 4\sqrt{3} & < 7\sqrt{3} \end{array}$$

Here, $x \leq y$

Hence, option (B) is correct.

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

II. $y^3 = 7269 + 731$
 $y^3 = 8000$
 $y = 20$
 $x < y$
Hence, option A is correct.

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20. 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

$$\begin{array}{ll} x & y \\ -2 = & -2 \\ -2 < +6 \\ -3 < -2 \\ -3 < +6 \end{array}$$

Here, $x \leq y$

Hence, option (B) is correct.

21. 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.

22. I. $20x^2 - 108x + 144 = 0$

$$\Rightarrow 4(5x^2 - 27x + 36) = 0$$

$$\Rightarrow 5x^2 - 27x + 36 = 0$$

$$\Rightarrow (5x - 12)(x - 3) = 0$$

$$\Rightarrow x = \frac{12}{5}, 3$$

II. $8y^2 + 18y + 4 = 0$

$$\Rightarrow (8y + 2)(y + 2) = 0$$

$$\Rightarrow y = -\frac{1}{4}, -2$$

Hence, $x > y$

Hence, option A is correct.

23. 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.

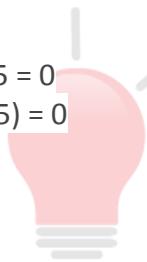
Hence, option E is correct.

24. 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.



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25. I. $2x^2 + 5x + 2 = 0$
 $\Rightarrow (2x + 1)(x + 2) = 0$
 $\Rightarrow x = -\frac{1}{2}, -2$

II. $6y^2 + 69y + 198 = 0$
 $\Rightarrow 3(2y^2 + 23y + 66) = 0$
 $\Rightarrow 2y^2 + 23y + 66 = 0$
 $\Rightarrow (2y + 11)(y + 6) = 0$
 $\Rightarrow y = -\frac{11}{2}, -6$

Hence, $x > y$

Hence, option A is correct.

26. I. $20x^2 + 93x + 99 = 0$

$$\Rightarrow 20x^2 + 60x + 33x + 99 = 0$$

$$\Rightarrow 20x(x + 3) + 33(x + 3) = 0$$

$$\Rightarrow (x + 3)(20x + 33) = 0$$

$$\therefore x = -3 \text{ or } x = -\frac{33}{20}$$

II. $16y^2 - 25 = 0$

$$\Rightarrow 16y^2 + 20y - 20y - 25 = 0$$

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

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

$$\therefore y = \frac{5}{4} \text{ or } y = -\frac{5}{4}$$

So, we can say that $x < y$.

Hence, option D is correct.

27. 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.

30. I. $3x^2 - (6 + \sqrt{17})x + 2\sqrt{17} = 0$

$$\Rightarrow 3x^2 - 6x - \sqrt{17}x + 2\sqrt{17} = 0$$

$$\Rightarrow 3x(x - 2) - \sqrt{17}(x - 2) = 0$$

$$\Rightarrow (3x - \sqrt{17})(x - 2) = 0$$

$$\Rightarrow x = \frac{\sqrt{17}}{3}, 2$$

II. $10y^2 - (15 + 2\sqrt{17})y + 3\sqrt{17} = 0$

$$\Rightarrow 10y^2 - 15y - 2\sqrt{17}y + 3\sqrt{17} = 0$$

$$\Rightarrow 5y(2y - 3) - \sqrt{17}(2y - 3) = 0$$

$$\Rightarrow (5y - \sqrt{17})(2y - 3) = 0$$

$$\Rightarrow y = \frac{\sqrt{17}}{5}, \frac{3}{2}$$

On comparing values of x and y

$$\frac{\sqrt{17}}{3} > \frac{\sqrt{17}}{5}$$

$$\frac{\sqrt{17}}{3} < \frac{3}{2}$$

$$2 > \frac{\sqrt{17}}{5}$$

$$2 > \frac{3}{2}$$

Hence, option (E) is correct.



31. 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.

32. I. $3x^2 + 19x + 30 = 0$

$$\Rightarrow 3x^2 + 9x + 10x + 30 = 0$$

$$\Rightarrow 3x^2 + 9x + 10x + 30 = 0$$

$$\Rightarrow 3x(x+3) + 10(x+3) = 0$$

$$\Rightarrow (3x+10)(x+3) = 0$$

$$\Rightarrow x = -\frac{10}{3}, -3$$

II. $3y^2 - 20y - 32 = 0$

$$\Rightarrow 3y^2 - 24y + 4y - 32 = 0$$

$$\Rightarrow 3y(y-8) + 4(y-8) = 0$$

$$\Rightarrow (3y+4)(y-8) = 0$$

$$\Rightarrow y = -\frac{4}{3}, 8$$

While comparing the root values x and y, we find that root values x is less than y's.

Therefore, $x < y$

Hence, option D is correct.

33. 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.

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34. I. $x^2 - 52x + 667 = 0$

$$\Rightarrow x^2 - 23x - 29x + 667 = 0$$

$$\Rightarrow x(x - 23) - 29(x - 23) = 0$$

$$\Rightarrow (x - 23)(x - 29) = 0$$

$$\Rightarrow x = 23, 29$$

II. $y^2 + 8y - 33 = 0$

$$\Rightarrow y^2 - 3y + 11y - 33 = 0$$

$$\Rightarrow y(y - 3) + 11(y - 3) = 0$$

$$\Rightarrow (y - 3)(y + 11) = 0$$

$$\Rightarrow y = 3, -11$$

Therefore, $x > y$

Hence, option A is correct.

35. I. $x^2 - 13\sqrt{2}x + 60 = 0$

$$\Rightarrow x^2 - 10\sqrt{2}x - 3\sqrt{2}x + 60 = 0$$

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

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

$$x = 3\sqrt{2}, 10\sqrt{2}$$



II. $y^2 + 3\sqrt{5}y - 20 = 0$

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

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

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

$$\Rightarrow y = -4\sqrt{5}, \sqrt{5}$$

While comparing the root values of x and y, we find that the x's root values are greater than y's.

Hence, option A is correct.

36. I. $10x^2 - 69x + 108 = 0$

$$\Rightarrow 10x^2 - 45x - 24x + 108 = 0$$

$$\Rightarrow 5x(2x - 9) - 12(2x - 9) = 0$$

$$\Rightarrow (5x - 12)(2x - 9) = 0$$

$$\therefore x = \frac{12}{5}, \frac{9}{2}$$

$$\begin{aligned}
 \text{II. } & 6y^2 - 47y + 77 = 0 \\
 \Rightarrow & 6y^2 - 33y - 14y + 77 = 0 \\
 \Rightarrow & 3y(2y - 11) - 7(2y - 11) = 0 \\
 \Rightarrow & (3y - 7)(2y - 11) = 0
 \end{aligned}$$

$$\therefore y = \frac{7}{3}, \frac{11}{2}$$

on comparing the values of x and y, we get

$$\begin{aligned}
 x &= y \\
 \frac{12}{5} &> \frac{7}{3} \\
 \frac{12}{5} &< \frac{11}{2} \\
 \frac{9}{2} &> \frac{7}{3} \\
 \frac{9}{2} &< \frac{11}{2}
 \end{aligned}$$

Hence, either $x = y$ or relationship cannot be established.

Hence, option E is correct.

37. I. $5x^2 - 34x + 24 = 0$

$$\begin{aligned}
 \Rightarrow & 5x^2 - 34x + 24 = 0 \\
 \Rightarrow & 5x^2 - 30x - 4x - 24 = 0 \\
 \Rightarrow & 5x(x - 6) - 4(x - 6) = 0 \\
 \Rightarrow & (5x - 4)(x - 6) = 0
 \end{aligned}$$

$$\Rightarrow x = \frac{4}{5}, 6$$

II. $4y^2 - 13y + 9 = 0$

$$\begin{aligned}
 \Rightarrow & 4y^2 - 4y - 9y + 9 = 0 \\
 \Rightarrow & 4y(y - 1) - 9(y - 1) = 0 \\
 \Rightarrow & (4y - 9)(y - 1) = 0
 \end{aligned}$$

$$\Rightarrow y = \frac{9}{4}, 1$$

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

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

Hence, option E is correct.

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38. I. $36x^2 - 196x - 11 = 0$
 $\Rightarrow 36x^2 + 2x - 198x - 11 = 0$
 $\Rightarrow 2x(18x + 1) - 11(18x + 1) = 0$
 $\Rightarrow (2x - 11)(18x + 1) = 0$

$$\Rightarrow x = \frac{11}{2}, -\frac{1}{18}$$

II. $4y^2 - 19y + 12 = 0$
 $\Rightarrow 4y^2 - 16y - 3y + 12 = 0$
 $\Rightarrow 4y(y - 4) - 3(y - 4) = 0$
 $\Rightarrow (4y - 3)(y - 4) = 0$

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

While comparing the root values of x and y, we find that the root values of y lies between the x's.
Therefore, relationship between x and y can't be determined.

Hence, option E is correct.

39. I. $6x^2 + 25x + 21 = 0$
 $\Rightarrow 6x^2 + 18x + 7x + 21 = 0$
 $\Rightarrow 6x(x + 3) + 7(x + 3) = 0$
 $\Rightarrow (x + 3)(6x + 7) = 0$

$$\Rightarrow x = -\frac{7}{6}, -3$$

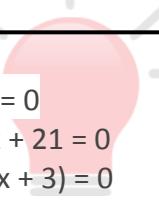
II. $5y^2 - 176y - 333 = 0$
 $\Rightarrow 5y^2 - 185y + 9y - 333 = 0$
 $\Rightarrow 5y(y - 37) + 9(y - 37) = 0$
 $\Rightarrow (y - 37)(5y + 9) = 0$

$$\Rightarrow y = 37, -\frac{9}{5}$$

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

Therefore, relationship between x and y cannot be determined.

Hence, option E is correct.



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40. I. $x^2 = 5476$

$$\Rightarrow x = \pm 74$$

II. $y^3 = 405224$

$$\Rightarrow y = 74$$

Hence, $x \leq y$

Hence, option B is correct.

41. 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.

42. I. $20x^2 - 108x + 144 = 0$

$$\Rightarrow 4(5x^2 - 27x + 36) = 0$$

$$\Rightarrow 5x^2 - 27x + 36 = 0$$

$$\Rightarrow (5x - 12)(x - 3) = 0$$

$$\Rightarrow x = \frac{12}{5}, 3$$

II. $8y^2 + 18y + 4 = 0$

$$\Rightarrow (8y + 2)(y + 2) = 0$$

$$\Rightarrow y = -\frac{1}{4}, -2$$

Hence, $x > y$

Hence, option A is correct.

43. 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.

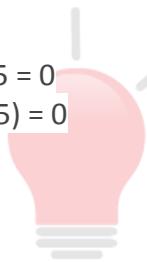
Hence, option E is correct.

44. 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.



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45. I. $2x^2 + 5x + 2 = 0$
 $\Rightarrow (2x + 1)(x + 2) = 0$
 $\Rightarrow x = -\frac{1}{2}, -2$

II. $6y^2 + 69y + 198 = 0$
 $\Rightarrow 3(2y^2 + 23y + 66) = 0$
 $\Rightarrow 2y^2 + 23y + 66 = 0$
 $\Rightarrow (2y + 11)(y + 6) = 0$
 $\Rightarrow y = -\frac{11}{2}, -6$

Hence, $x > y$

Hence, option A is correct.

46. I. $20x^2 + 93x + 99 = 0$

$$\Rightarrow 20x^2 + 60x + 33x + 99 = 0$$

$$\Rightarrow 20x(x+3) + 33(x+3) = 0$$

$$\Rightarrow (x+3)(20x+33) = 0$$

$$\therefore x = -3 \text{ or } x = -\frac{33}{20}$$

II. $16y^2 - 25 = 0$

$$\Rightarrow 16y^2 + 20y - 20y - 25 = 0$$

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

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

$$\therefore y = \frac{5}{4} \text{ or } y = -\frac{5}{4}$$

So, we can say that $x < y$.

Hence, option D is correct.

47. 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.

50. I. $3x^2 - (6 + \sqrt{17})x + 2\sqrt{17} = 0$

$$\Rightarrow 3x^2 - 6x - \sqrt{17}x + 2\sqrt{17} = 0$$

$$\Rightarrow 3x(x - 2) - \sqrt{17}(x - 2) = 0$$

$$\Rightarrow (3x - \sqrt{17})(x - 2) = 0$$

$$\Rightarrow x = \frac{\sqrt{17}}{3}, 2$$

II. $10y^2 - (15 + 2\sqrt{17})y + 3\sqrt{17} = 0$

$$\Rightarrow 10y^2 - 15y - 2\sqrt{17}y + 3\sqrt{17} = 0$$

$$\Rightarrow 5y(2y - 3) - \sqrt{17}(2y - 3) = 0$$

$$\Rightarrow (5y - \sqrt{17})(2y - 3) = 0$$

$$\Rightarrow y = \frac{\sqrt{17}}{5}, \frac{3}{2}$$

On comparing values of x and y

$$\frac{\sqrt{17}}{3} > \frac{\sqrt{17}}{5}$$

$$\frac{\sqrt{17}}{3} < \frac{3}{2}$$

$$2 > \frac{\sqrt{17}}{5}$$

$$2 > \frac{3}{2}$$

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Hence, option (E) is correct.

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