

EQUATION

1. (Direction: Q. 1—5) : In the following questions two equations numbered I and II are given. You have to solve both the equations and give answer

(1) $x > y$ (2) $x \geq y$

(3) $x < y$ (4) $x \leq y$

(5) $x = y$ or the relationship cannot be established.

1. I. $x = 3\sqrt{10648}$ II. $Y = \pm \sqrt{484}$

2. I. $x^2 + 12x + 27 = 0$ II. $Y^2 + 15y + 56 = 0$

3. I. $x^2 + 12x + 27 = 0$ II. $y^2 + 11y + 30 = 0$

4. I. $4x + 2y = 8.5$ II. $2x + 4y = 9.5$

5. I. $\frac{3}{4}y = \frac{2}{3}x$ II. $24.1 - y = 19.6$

2. (Direction: Q. 6 —10): In the following questions two equations numbered I and II are given. You have to solve both equations and give answer.

(1) If $x > y$ (2) if $x \geq y$

(3) if $x < y$ (4) $x \leq y$

(5) if $x = y$ or the relationship can't be established.

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

7. I. $x^2 + 28x + 192 = 0$ II. $y^2 + 16y + 48 = 0$

8. I. $2x - 3y = -3.5$ II. $3x - 2y = -6.5$

9. I. $x^2 + 8x + 15 = 0$ II. $y^2 + 11y + 30 = 0$

10. I. $x - \sqrt{3136}$ II. $y^2 = 3136$

3. (Direction: Q. 11 — 15) In the following questions two equations I and II are given. You have to solve both the equations and give answer

(1) if $x > y$ (2) if $x \geq y$

(3) if $x < y$ (4) if $x \leq y$

(5) $x = y$ or the relationship cannot be determined.

11 I. $2x - 15y = 5$ II. $6x - 5y = -1$

12. I. $x^2 = 1521$ II. $y = \sqrt{1521}$

13. I. $x^2 - 12x + 35 = 0$ II. $y^2 - 9y + 20 = 0$

14. $4x + 3y = 16$ II. $2x + 2y = 9$

15. I. $x^2 + 7x + 12 = 0$ II. $y^2 + 5y + 6 = 0$

4. (Direction: Q. 16 — 20): In each of these questions, two equations are given. You have to solve these equations and find out the values of x and y and give answer

(1) if $x < y$ (2) if $x > y$

(3) if $x \leq y$ (4) if $x \geq y$

(5) $x = y$ or the relationship cannot be established.

16. I. $12x^2 = 6x$ II. $y + x^2 = 0.45$

17. I. $x = \sqrt{6.25}$ II. $y^2 = 6.25$

18. I. $20x^2 - 33x + 7 = 0$ II. $y = \sqrt{0.0625}$

19. I. $6x^2 + 28x + 16 = 0$ II. $14y^2 + 15y + 4 = 0$

20. I. $4x + 3y = 16$ II. $2x + 4y = 13$

5. (Direction: Q. 21 — 25): In the following questions two equation numbered I and II are given. You have to solve both the equation and

Give answer:

(1) if $x > y$ (2) if $x \geq y$

(3) if $x < y$ (4) if $x \leq y$

(5) $x = y$ or the relationship cannot be established.

21. I. $3x^2 + 8x + 4 = 0$ II. $4y^2 - 19y + 120 = 0$

22. I. $x^2 + x - 20 = 0$ II. $y^2 - y - 30 = 0$

23. I. $x^2 - 365 = 364$ II. $y - \sqrt{324} = \sqrt{81}$

24. I. $\frac{4}{\sqrt{x}} + \frac{7}{\sqrt{x}} = \sqrt{x}$ II. $y^2 \frac{(11)^{\frac{5}{2}}}{\sqrt{y}} = 0$

25. I. $225x^2 - 4 = 0$ II. $\sqrt{225y} - 2 = 0$

6. (Direction: Q. 26 — 30): In the following questions two equation numbered I and II are given. You have to solve both the equation and

Give answer:

(1) if $x > y$ (2) if $x \geq y$

(3) if $x < y$ (4) if $x \leq y$

(5) $x = y$ or the relationship cannot be established.

26. I. $2x^2 + 11x + 14 = 0$ II. $4y^2 + 12y + 9 = 0$

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

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

29. I. $x^2 = 729$ II. $y = \sqrt{729}$

30. I. $x^4 - 227 = 398$ II. $y^2 + 321 = 346$

7. (Direction: Q. 31 — 35): In the following questions two equation numbered I and II are given. You have to solve both the equation and

Give answer:

(1) if $x > y$ (2) if $x \geq y$

(3) if $x < y$ (4) if $x \leq y$

(5) $x = y$ or the relationship can not be established.

31. I. $x^2 - 1 = 0$ II. $y^2 + 4y + 3 = 0$

32. I. $x^2 - 7x + 12 = 0$ II. $y^2 - 12y + 32 = 0$

33. I. $x^3 - 371 = 629$ II. $y^3 - 543 = 788$

34. I. $5x + 2y = 31$ II. $3x + 7y = 36$

35. I. $2x^2 + 11x + 12 = 0$ II. $5y^2 + 27y + 10 = 0$