

TOPIC: - QUADRATIC EQUATION

PRACTICE SET

Direction (1-15): In each of these questions, two equations (I) and (II) is given. You have to solve both the equations and given answer

(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 cannot be established

1. I. $4x^2 - 43x + 105 = 0$

II. $7y^2 - 29y + 30 = 0$

2. I. $x^2 + 13x + 40 = 0$

II. $y^2 + 7y + 10 = 0$

3. I. $x = \sqrt[3]{2197}$

II. $2y^2 - 54y + 364 = 0$

4. I. $13x - 8y + 81 = 0$

II. $15x - 5y + 65 = 0$

5. I. $x = \sqrt{172}$

II. $y^2 - 29y + 210 = 0$

6. I. $676x^2 - 1 = 0$

II. $y = \frac{1}{\sqrt[3]{13824}}$

7. I. $2x^2 = 5x - 33 = 0$

II. $y^2 - y - 6 = 0$

8. I. $x^2 + 12x + 36 = 0$

II. $y^2 + 15y + 56 = 0$

9. I. $2x^2 - 3x - 35 = 0$

II. $y^2 - 7y + 6 = 0$

10. I. $12x^2 - 47x + 40 = 0$

II. $4y^2 + 3y - 10 = 0$

11. I. $x = \frac{\sqrt{256}}{\sqrt{576}}$

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

12. I. $8x^2 - 49x + 45 = 0$

II. $8y^2 - y - 9 = 0$

13. I. $42x - 17y = -67$

II. $7 - 12Y = -26$

14. I. $2.3x - 20.01 = 0$

II. $2.9y - x = 0$

15. I. $x^2 - 26x + 168 = 0$

II. $y^2 - 25y + 156 = 0$

SOLUTIONS

1. a
2. d
3. d
4. c
5. c
6. c
7. e
8. a
9. e
10. b
11. b
12. b
13. c
14. a
15. e

