



TOP 50 Quadratic Equation Questions for Bank PO & Clerk Exams



IBPS Guide

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Directions (1 – 5): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

- a) If $x > y$
- b) If $x \geq y$
- c) If $x < y$
- d) If $x \leq y$
- e) If $x = y$ or the relation cannot be established

1)

I. $12x^2 - 40x + 32 = 0$

II. $8y^2 - 40y + 48 = 0$

2)

I. $9x - 7y = 15$

II. $3x - y = -3$

3)

I. $12x^2 + 40x + 32 = 0$

II. $8y^2 + 40y + 42 = 0$

4)

I. $4x^2 - 7x - 57 = 0$

II. $5y^2 - 6y - 63 = 0$

5)

I. $12x^2 + 17x - 57 = 0$

II. $4y^2 - 7y - 36 = 0$

Directions (6 – 10): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

- a) If $x > y$
- b) If $x \geq y$
- c) If $x < y$
- d) If $x \leq y$
- e) If $x = y$ or the relation cannot be established

6)

I. $(x^{12/7} \div 16) = (49 \div x^{2/7})$

II. $y^{31/7} \times y^{4/7} \times 9 = 324 \times y^3$

7)

I. $15x^2 - 40x + 16 = 10x^2 - 22x$

II. $17y^2 + 22y + 9 = 13y^2 + 10y$

8)

I. $7x^2 + 37x + 36 = 0$

II. $9y^2 + 35y + 24 = 0$

9)

I. $5x - 4y = -12$

II. $3x + 5y = -59$

10)

I. $15x^2 + 68x + 77 = 0$

II. $3y^2 + 29y + 68 = 0$

Directions (11 – 15): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

- a) If $x > y$
- b) If $x \geq y$
- c) If $x < y$
- d) If $x \leq y$
- e) If $x = y$ or the relation cannot be established

11)

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

II. $4y^2 + 3y - 22 = 0$

12)

I. $x^2 = 4624$

II. $y^3 - 248 = 373000$

13)

I. $x^2 - 4x - 621 = 0$

II. $y^2 - 34y + 285 = 0$

14)

I. $6x + 5y = \sqrt{2809}$

II. $5x + 7y = 64$

15)

I. $x^2 + 7x - 330 = 0$

II. $y = (194481)^{1/4}$

Directions (16 – 20): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

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- a) If $x > y$
b) If $x \geq y$
c) If $x < y$
d) If $x \leq y$
e) If $x = y$ or the relation cannot be established

16)

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

II. $4y^2 + 3y - 22 = 0$

17)

I. $x^2 = 4624$

II. $y^3 - 248 = 373000$

18)

I. $x^2 - 4x - 621 = 0$

II. $y^2 - 34y + 285 = 0$

19)

I. $6x + 5y = \sqrt{2809}$

II. $5x + 7y = 64$

20)

I. $x^2 + 7x - 330 = 0$

II. $y = (194481)^{1/4}$

Directions (21 – 25): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

- a) If $x > y$
b) If $x \geq y$
c) If $x < y$
d) If $x \leq y$
e) If $x = y$ or the relation cannot be established

21)

I. $x^2 - 9x - 112 = 0$

II. $y^2 + 26y - 87 = 0$

22)

I. $12x^2 + 37x + 28 = 0$

II. $14y^2 + 39y + 27 = 0$

23)

I. $4x^2 + 23x - 72 = 0$

II. $5y^2 - 28y + 32 = 0$

24)

I. $x^2 + 5\sqrt{7} + 42 = 0$

II. $y^2 + 6\sqrt{7} + 56 = 0$

25)

I. $2x^2 - 302 = 420$

II. $y - \sqrt{361} = 0$

Directions (26 – 30): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

- a) If $x > y$
b) If $x \geq y$
c) If $x < y$
d) If $x \leq y$
e) If $x = y$ or the relation cannot be established

26)

I. $5x + 6y = 21$

II. $4x + 5y = 11$

27)

I. $2x^2 + 13x + 20 = 0$

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

28)

I. $5x^2 + 12x - 9 = 0$

II. $6y^2 - 13y - 8 = 0$

29)

I. $5x^2 + 3x - 14 = 0$

II. $5y^2 + 8y - 21 = 0$

30)

I. $5x^2 - 6x - 56 = 0$

II. $6y^2 + 9y - 42 = 0$

Directions (31 – 35): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

- a) If $x > y$
b) If $x \geq y$
c) If $x < y$
d) If $x \leq y$
e) If $x = y$ or the relation cannot be established

31)

I. $3x^2 + 14x + 15 = 0$

II. $3y^2 - 13y + 14 = 0$

32)

I. $4x^2 - 6x - 18 = 0$

II. $5y^2 + 6y - 27 = 0$

33)

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I. $x^2 - 23x + 102 = 0$

II. $y^2 - 24y - 256 = 0$

34)

I. $5x - 2y = -11$

II. $3x + 5y = -19$

35)

I. $x = \sqrt[4]{4096}$

II. $y = \sqrt[3]{729}$

Directions (36 – 40): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

a) If $x > y$

b) If $x \geq y$

c) If $x < y$

d) If $x \leq y$

e) If $x = y$ or the relation cannot be established

36)

I. $3x^2 - 18x + 27 = 0$

II. $5y^2 + 11y - 36 = 0$

37)

I. $4x - 5y = 28$

II. $3x + 4y = -10$

38)

I. $x^2 + 18x - 115 = 0$

II. $y^2 + 21y + 98 = 0$

39)

I. $x^2 - 12x - 64 = 0$

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

40)

I. $2x^2 + 9x - 45 = 0$

II. $4y^2 + 19y + 22 = 0$

Directions (41-45): In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

a) If $x > y$

b) If $x \geq y$

c) If $x < y$

d) If $x \leq y$

e) If $x = y$ or the relation cannot be established

41)

I. $7x^2 + 27x + 18 = 0$

II. $9y^2 + 23y - 12 = 0$

42)

I. $7x - 2y = 25$

II. $5x + 3y = 9$

43)

I. $6x^2 + 17x - 58 = 0$

II. $5y^2 - 2y - 72 = 0$

44)

I. $4x^2 + 40x + 64 = 0$

II. $3y^2 + 44y + 153 = 0$

45)

I. $5x^2 + 27x - 56 = 0$

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

Directions (46 – 50): In the following questions, two equations I and II are given. You have to solve both the equations and give answer as,

a) If $x > y$

b) If $x \geq y$

c) If $x < y$

d) If $x \leq y$

e) If $x = y$ or the relation cannot be established

46)

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

II. $5y^2 + 4y - 12 = 0$

47)

I. $2x^2 + 12x + 16 = 0$

II. $3y^2 - 7y - 6 = 0$

48)

I. $7x + 2y = -13$

II. $5x - 4y = 7$

49)

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

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

50)

I. $\sqrt{25x} + \sqrt{5625} = 0$

II. $(243)^{1/5}y + (1728)^{1/3} = 0$

Answers:

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1) Answer: d)

I. $12x^2 - 40x + 32 = 0$

$12x^2 - 24x - 16x + 32 = 0$

$12x(x - 2) - 16(x - 2) = 0$

$(12x - 16)(x - 2) = 0$

$X = 16/12, 2 = 1.33, 2$

II. $8y^2 - 40y + 48 = 0$

$8y^2 - 16y - 24y + 48 = 0$

$8y(y - 2) - 24(y - 2) = 0$

$(8y - 24)(y - 2) = 0$

$Y = 3, 2$

$x \leq y$

2) Answer: a)

$9x - 7y = 15 \rightarrow (1)$

$3x - y = -3 \rightarrow (2)$

By solving the equation (1) and (2), we get,

$X = -3, y = -6$

$x > y$

3) Answer: e)

I. $12x^2 + 40x + 32 = 0$

$12x^2 + 24x + 16x + 32 = 0$

$12x(x + 2) + 16(x + 2) = 0$

$(12x + 16)(x + 2) = 0$

$X = -16/12, -2 = -1.33, -2$

II. $8y^2 + 40y + 42 = 0$

$8y^2 + 12y + 28y + 42 = 0$

$4y(2y + 3) + 14(2y + 3) = 0$

$(4y + 14)(2y + 3) = 0$

$Y = -14/4, -3/2 = -3.5, -1.5$

Can't be determined

4) Answer: e)

I. $4x^2 - 7x - 57 = 0$

$4x^2 + 12x - 19x - 57 = 0$

$4x(x + 3) - 19(x + 3) = 0$

$(4x - 19)(x + 3) = 0$

$X = 19/4, -3 = 4.75, -3$

II. $5y^2 - 6y - 63 = 0$

$5y^2 + 15y - 21y - 63 = 0$

$5y(y + 3) - 21(y + 3) = 0$

$(5y - 21)(y + 3) = 0$

$Y = 21/5, -3 = 4.2, -3$

Can't be determined

5) Answer: e)

I. $12x^2 + 17x - 57 = 0$

$12x^2 - 36x + 19x - 57 = 0$

$12x(x - 3) + 19(x - 3) = 0$

$(12x + 19)(x - 3) = 0$

$X = -19/12, 3 = -1.58, 3$

II. $4y^2 - 7y - 36 = 0$

$4y^2 - 16y + 9y - 36 = 0$

$4y(y - 4) + 9(y - 4) = 0$

$(4y + 9)(y - 4) = 0$

$Y = -9/4, 4 = 2.25, 4$

Can't be determined

6) Answer: e)

I. $(x^{12/7} \div 16) = (49 \div x^{2/7})$

$X^{12/7} \times x^{2/7} = 49 \times 16$

$X^{14/7} = 49 \times 16$

$X^2 = 49 \times 16$

$X = + (7 \times 4), - (7 \times 4) = +28, -28$

II. $y^{31/7} \times y^{4/7} \times 9 = 324 \times y^3$

$Y^{31/7 + 4/7 - 3} = 324/9$

$Y^2 = 36$

$Y = 6, -6$

Can't be determined

7) Answer: a)

I. $15x^2 - 40x + 16 = 10x^2 - 22x$

$5x^2 - 18x + 16 = 0$

$5x^2 - 10x - 8x + 16 = 0$

$5x(x - 2) - 8(x - 2) = 0$

$(5x - 8)(x - 2) = 0$

$X = 8/5, 2 = 1.6, 2$

II. $17y^2 + 22y + 9 = 13y^2 + 10y$

$4y^2 + 12y + 9 = 0$

$4y^2 + 6y + 6y + 9 = 0$

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

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

$Y = -3/2, -3/2 = -1.5, -1.5$

$x > y$

8) Answer: e)

I. $7x^2 + 37x + 36 = 0$

$7x^2 + 28x + 9x + 36 = 0$

$7x(x + 4) + 9(x + 4) = 0$

$(7x + 9)(x + 4) = 0$

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$$X = -9/7, -4 = -1.28, -4$$

$$\text{II. } 9y^2 + 35y + 24 = 0$$

$$9y^2 + 27y + 8y + 24 = 0$$

$$9y(y + 3) + 8(y + 3) = 0$$

$$(9y + 8)(y + 3) = 0$$

$$Y = -8/9, -3 = -0.89, -3$$

Can't be determined

9) Answer: c)

$$5x - 4y = -12 \rightarrow (1)$$

$$3x + 5y = -59 \rightarrow (2)$$

By solving the equation (1) and (2), we get,

$$X = -8, y = -7$$

$$x < y$$

10) Answer: a)

$$\text{I. } 15x^2 + 68x + 77 = 0$$

$$15x^2 + 35x + 33x + 77 = 0$$

$$5x(3x + 7) + 11(3x + 7) = 0$$

$$(5x + 11)(3x + 7) = 0$$

$$X = -11/5, -7/3 = -2.2, -2.33$$

$$\text{II. } 3y^2 + 29y + 68 = 0$$

$$3y^2 + 12y + 17y + 68 = 0$$

$$3y(y + 4) + 17(y + 4) = 0$$

$$(3y + 17)(y + 4) = 0$$

$$Y = -17/3, -4 = -5.67, -4$$

$$x > y$$

11) Answer: e)

$$\text{I. } 5x^2 + 16x - 16 = 0$$

$$5x^2 + 20x - 4x - 16 = 0$$

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

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

$$X = 4/5, -4 = 0.8, -4$$

$$\text{II. } 4y^2 + 3y - 22 = 0$$

$$4y^2 - 8y + 11y - 22 = 0$$

$$4y(y - 2) + 11(y - 2) = 0$$

$$(4y + 11)(y - 2) = 0$$

$$Y = -11/4, 2 = -2.75, 2$$

Can't be determined

12) Answer: c)

$$\text{I. } x^2 = 4624$$

$$X = 68, -68$$

$$\text{II. } y^3 - 248 = 373000$$

$$y^3 = 373000 + 248 = 373248$$

$$y = 72$$

$$x < y$$

13) Answer: e)

$$\text{I. } x^2 - 4x - 621 = 0$$

$$(x + 23)(x - 27) = 0$$

$$X = -23, 27$$

$$\text{II. } y^2 - 34y + 285 = 0$$

$$(y - 19)(y - 15) = 0$$

$$Y = 19, 15$$

Can't be determined

14) Answer: c)

$$\text{I. } 6x + 5y = \sqrt{2809}$$

$$6x + 5y = 53 \rightarrow (1)$$

$$\text{II. } 5x + 7y = 64$$

$$5x + 7y = 64 \rightarrow (2)$$

By solving the equation (1) and (2), we get,

$$X = 3, y = 7$$

$$x < y$$

15) Answer: c)

$$\text{I. } x^2 + 7x - 330 = 0$$

$$(x - 15)(x + 22) = 0$$

$$X = 15, -22$$

$$\text{II. } y = \sqrt{441}$$

$$Y = 21$$

$$x < y$$

16) Answer: e)

$$\text{I. } 5x^2 + 16x - 16 = 0$$

$$5x^2 + 20x - 4x - 16 = 0$$

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

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

$$X = 4/5, -4 = 0.8, -4$$

$$\text{II. } 4y^2 + 3y - 22 = 0$$

$$4y^2 - 8y + 11y - 22 = 0$$

$$4y(y - 2) + 11(y - 2) = 0$$

$$(4y + 11)(y - 2) = 0$$

$$Y = -11/4, 2 = -2.75, 2$$

Can't be determined

17) Answer: c)

$$\text{I. } x^2 = 4624$$

$$X = 68, -68$$

$$\text{II. } y^3 - 248 = 373000$$

$$y^3 = 373000 + 248 = 373248$$

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$$y = 72$$

$$x < y$$

18) Answer: e)

I. $x^2 - 4x - 621 = 0$

$$(x + 23)(x - 27) = 0$$

$$X = -23, 27$$

II. $y^2 - 34y + 285 = 0$

$$(y - 19)(y - 15) = 0$$

$$Y = 19, 15$$

Can't be determined

19) Answer: c)

I. $6x + 5y = \sqrt{2809}$

$$6x + 5y = 53 \rightarrow (1)$$

II. $5x + 7y = 64$

$$5x + 7y = 64 \rightarrow (2)$$

By solving the equation (1) and (2), we get,

$$X = 3, y = 7$$

$$x < y$$

20) Answer: c)

I. $x^2 + 7x - 330 = 0$

$$(x - 15)(x + 22) = 0$$

$$X = 15, -22$$

II. $y = \sqrt{441}$

$$Y = 21$$

$$x < y$$

21). Answer: e)

I. $x^2 - 9x - 112 = 0$

$$x^2 - 16x + 7x - 112 = 0$$

$$x(x - 16) + 7(x - 16) = 0$$

$$(x + 7)(x - 16) = 0$$

$$X = -7, 16$$

II. $y^2 + 26y - 87 = 0$

$$y^2 + 29y - 3y - 87 = 0$$

$$y(y + 29) - 3(y + 29) = 0$$

$$(y - 3)(y + 29) = 0$$

$$Y = 3, -29$$

Can't be determined

22) Answer: e)

I. $12x^2 + 37x + 28 = 0$

$$12x^2 + 16x + 21x + 28 = 0$$

$$4x(3x + 4) + 7(3x + 4) = 0$$

$$(4x + 7)(3x + 4) = 0$$

$$X = -7/4, -4/3 = -1.75, -1.33$$

II. $14y^2 + 39y + 27 = 0$

$$14y^2 + 21y + 18y + 27 = 0$$

$$7y(2y + 3) + 9(2y + 3) = 0$$

$$(7y + 9)(2y + 3) = 0$$

$$Y = -9/7, -3/2 = -1.28, -1.5$$

Can't be determined

23) Answer: e)

I. $4x^2 + 23x - 72 = 0$

$$4x^2 + 32x - 9x - 72 = 0$$

$$4x(x + 8) - 9(x + 8) = 0$$

$$(4x - 9)(x + 8) = 0$$

$$X = 9/4, -8 = 2.25, -8$$

II. $5y^2 - 28y + 32 = 0$

$$5y^2 - 20y - 8y + 32 = 0$$

$$5y(y - 4) - 8(y - 4) = 0$$

$$(5y - 8)(y - 4) = 0$$

$$Y = 8/5, 4 = 1.6, 4$$

Can't be determined

24) Answer: e)

I. $x^2 + 5\sqrt{7} + 42 = 0$

$$x^2 + 3\sqrt{7}x + 2\sqrt{7}x + 42 = 0$$

$$x(x + 3\sqrt{7}) + 2\sqrt{7}(x + 3\sqrt{7}) = 0$$

$$(x + 2\sqrt{7})(x + 3\sqrt{7}) = 0$$

$$X = -2\sqrt{7}, -3\sqrt{7}$$

II. $y^2 + 6\sqrt{7} + 56 = 0$

$$y^2 + 4\sqrt{7}y + 2\sqrt{7}y + 56 = 0$$

$$y(y + 4\sqrt{7}) + 2\sqrt{7}(y + 4\sqrt{7}) = 0$$

$$(y + 2\sqrt{7})(y + 4\sqrt{7}) = 0$$

$$Y = -2\sqrt{7}, -4\sqrt{7}$$

Can't be determined

25) Answer: d)

I. $2x^2 - 302 = 420$

$$2x^2 = 302 + 420$$

$$2x^2 = 722$$

$$X^2 = 361$$

$$X = 19, -19$$

II. $y - \sqrt{361} = 0$

$$Y = \sqrt{361}$$

$$Y = 19$$

$$x \leq y$$

26) Answer: a)

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$$5x + 6y = 21 \text{---à (1)}$$

$$4x + 5y = 11 \text{---à (2)}$$

By solving the equation (1) and (2), we get,

$$X = 39, y = -29$$

$$x > y$$

27) Answer: d)

I. $2x^2 + 13x + 20 = 0$

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

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

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

$$X = -5/2, -4$$

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

$$3y^2 - 6y + 5y - 10 = 0$$

$$3y(y - 2) + 5(y - 2) = 0$$

$$(3y + 5)(y - 2) = 0$$

$$Y = -5/2, 2$$

$$x \leq y$$

28) Answer: e)

I. $5x^2 + 12x - 9 = 0$

$$5x^2 + 15x - 3x - 9 = 0$$

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

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

$$X = 3/5, -3$$

II. $6y^2 - 13y - 8 = 0$

$$6y^2 + 3y - 16y - 8 = 0$$

$$3y(2y + 1) - 8(2y + 1) = 0$$

$$(3y - 8)(2y + 1) = 0$$

$$Y = 8/3, -1/2$$

Can't be determined

29) Answer: e)

I. $5x^2 + 3x - 14 = 0$

$$5x^2 + 10x - 7x - 14 = 0$$

$$5x(x + 2) - 7(x + 2) = 0$$

$$(5x - 7)(x + 2) = 0$$

$$X = 7/5, -2$$

II. $5y^2 + 8y - 21 = 0$

$$5y^2 + 15y - 7y - 21 = 0$$

$$5y(y + 3) - 7(y + 3) = 0$$

$$(5y - 7)(y + 3) = 0$$

$$Y = 7/5, -3$$

Can't be determined

30) Answer: e)

I. $5x^2 - 6x - 56 = 0$

$$5x^2 - 20x + 14x - 56 = 0$$

$$5x(x - 4) + 14(x - 4) = 0$$

$$(5x + 14)(x - 4) = 0$$

$$X = -14/5, 4 = -2.8, 4$$

II. $6y^2 + 9y - 42 = 0$

$$6y^2 - 12y + 21y - 42 = 0$$

$$6y(y - 2) + 21(y - 2) = 0$$

$$(6y + 21)(y - 2) = 0$$

$$Y = -21/6, 2 = -3.5, 2$$

Can't be determined

31) Answer: c)

I. $3x^2 + 14x + 15 = 0$

$$3x^2 + 9x + 5x + 15 = 0$$

$$3x(x + 3) + 5(x + 3) = 0$$

$$(3x + 5)(x + 3) = 0$$

$$X = -5/3, -3$$

II. $3y^2 - 13y + 14 = 0$

$$3y^2 - 6y - 7y + 14 = 0$$

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

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

$$Y = 7/3, 2$$

$$x < y$$

32) Answer: e)

I. $4x^2 - 6x - 18 = 0$

$$4x^2 - 12x + 6x - 18 = 0$$

$$4x(x - 3) + 6(x - 3) = 0$$

$$(4x + 6)(x - 3) = 0$$

$$X = -6/4, 3 = -3/2, 3 = -1.5, 3$$

II. $5y^2 + 6y - 27 = 0$

$$5y^2 + 15y - 9y - 27 = 0$$

$$5y(y + 3) - 9(y + 3) = 0$$

$$(5y - 9)(y + 3) = 0$$

$$Y = 9/5, -3 = 1.8, -3$$

Can't be determined

33) Answer: e)

I. $x^2 - 23x + 102 = 0$

$$x^2 - 6x - 17x + 102 = 0$$

$$x(x - 6) - 17(x - 6) = 0$$

$$(x - 17)(x - 6) = 0$$

$$X = 17, 6$$

II. $y^2 - 24y - 256 = 0$

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TOP 50 Quadratic Equation Questions for Bank PO & Clerk Exams

$$y^2 - 32y + 8y - 256 = 0$$

$$y(y - 32) + 8(y - 32) = 0$$

$$(y + 8)(y - 32) = 0$$

$$Y = -8, 32$$

Can't be determined

34) Answer: c)

$$5x - 2y = -11 \text{-----(1)}$$

$$3x + 5y = -19 \text{-----(2)}$$

By solving the equation (1) and (2), we get,

$$x = -3, y = -2$$

$$x < y$$

35) Answer: c)

$$\text{I. } x = \sqrt[4]{4096}$$

$$X = 8, -8$$

$$\text{II. } y = \sqrt[3]{729}$$

$$Y = 9$$

$$x < y$$

36) Answer: a)

$$\text{I. } 3x^2 - 18x + 27 = 0$$

$$3x^2 - 9x - 9x + 27 = 0$$

$$3x(x - 3) - 9(x - 3) = 0$$

$$(3x - 9)(x - 3) = 0$$

$$X = 9/3, 3 = 3, 3$$

$$\text{II. } 5y^2 + 11y - 36 = 0$$

$$5y^2 + 20y - 9y - 36 = 0$$

$$5y(y + 4) - 9(y + 4) = 0$$

$$(5y - 9)(y + 4) = 0$$

$$Y = 9/5, -4 = 1.8, -4$$

$$x > y$$

37) Answer: a)

$$4x - 5y = 28 \text{ -à (1)}$$

$$3x + 4y = -10 \text{ -à (2)}$$

By solving the equation (1) and (2),

$$X = 2, y = -4$$

$$X > y$$

38) Answer: e)

$$\text{I. } x^2 + 18x - 115 = 0$$

$$x^2 + 23x - 5x - 115 = 0$$

$$x(x + 23) - 5(x + 23) = 0$$

$$(x - 5)(x + 23) = 0$$

$$X = 5, -23$$

$$\text{II. } y^2 + 21y + 98 = 0$$

$$y^2 + 14y + 7y + 98 = 0$$

$$y(y + 14) + 7(y + 14) = 0$$

$$(y + 7)(y + 14) = 0$$

$$Y = -7, -14$$

Can't be determined

39) Answer: a)

$$\text{I. } x^2 - 12x - 64 = 0$$

$$x^2 + 4x - 16x - 64 = 0$$

$$x(x + 4) - 16(x + 4) = 0$$

$$(x - 16)(x + 4) = 0$$

$$X = 16, -4$$

$$\text{II. } y^2 + 13y + 42 = 0$$

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

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

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

$$Y = -7, -6$$

$$x > y$$

40) Answer: e)

$$\text{I. } 2x^2 + 9x - 45 = 0$$

$$2x^2 - 6x + 15x - 45 = 0$$

$$2x(x - 3) + 15(x - 3) = 0$$

$$(2x + 15)(x - 3) = 0$$

$$X = -15/2, 3 = -7.5, 3$$

$$\text{II. } 4y^2 + 19y + 22 = 0$$

$$4y^2 + 8y + 11y + 22 = 0$$

$$4y(y + 2) + 11(y + 2) = 0$$

$$(4y + 11)(y + 2) = 0$$

$$Y = -11/4, -2 = -2.75, -2$$

Can't be determined

41) Answer: e)

$$\text{I. } 7x^2 + 27x + 18 = 0$$

$$7x^2 + 21x + 6x + 18 = 0$$

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TOP 50 Quadratic Equation Questions for Bank PO & Clerk Exams

$$7x(x + 3) + 6(x + 3) = 0$$

$$(7x + 6)(x + 3) = 0$$

$$X = -6/7, -3 = -0.85, -3$$

$$\text{II. } 9y^2 + 23y - 12 = 0$$

$$9y^2 + 27y - 4y - 12 = 0$$

$$9y(y + 3) - 4(y + 3) = 0$$

$$(9y - 4)(y + 3) = 0$$

$$Y = 4/9, -3 = 0.44, -3$$

Can't be determined

42) Answer: a)

$$7x - 2y = 25 \text{ --à (1)}$$

$$5x + 3y = 9 \text{ --à (2)}$$

By solving the equation (1) and (2), we get,

$$X = 3, y = -2$$

$$x > y$$

43) Answer: e)

$$\text{I. } 6x^2 + 17x - 58 = 0$$

$$6x^2 - 12x + 29x - 58 = 0$$

$$6x(x - 2) + 29(x - 2) = 0$$

$$(6x + 29)(x - 2) = 0$$

$$X = -29/6, 2 = -4.83, 2$$

$$\text{II. } 5y^2 - 2y - 72 = 0$$

$$5y^2 - 20y + 18y - 72 = 0$$

$$5y(y - 4) + 18(y - 4) = 0$$

$$(5y + 18)(y - 4) = 0$$

$$Y = -18/5, 4 = -3.6, 4$$

Can't be determined

44) Answer: e)

$$\text{I. } 4x^2 + 40x + 64 = 0$$

$$4x^2 + 8x + 32x + 64 = 0$$

$$4x(x + 2) + 32(x + 2) = 0$$

$$(4x + 32)(x + 2) = 0$$

$$X = -32/4, -2 = -8, -2$$

$$\text{II. } 3y^2 + 44y + 153 = 0$$

$$3y^2 + 27y + 17y + 153 = 0$$

$$3y(y + 9) + 17(y + 9) = 0$$

$$(3y + 17)(y + 9) = 0$$

$$Y = -17/3, -9 = -5.67, -9$$

Can't be determined

45) Answer: e)

$$\text{I. } 5x^2 + 27x - 56 = 0$$

$$5x^2 + 35x - 8x - 56 = 0$$

$$5x(x + 7) - 8(x + 7) = 0$$

$$(5x - 8)(x + 7) = 0$$

$$X = 8/5, -7 = 1.6, -7$$

$$\text{II. } 7y^2 + 11y - 6 = 0$$

$$7y^2 + 14y - 3y - 6 = 0$$

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

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

$$Y = 3/7, -2 = 0.428, -2$$

Can't be determined

46) Answer: a)

$$\text{I. } x^2 - 12x + 36 = 0$$

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

$$X = 6, 6$$

$$\text{II. } 5y^2 + 4y - 12 = 0$$

$$5y^2 + 10y - 6y - 12 = 0$$

$$5y(y + 2) - 6(y + 2) = 0$$

$$(5y - 6)(y + 2) = 0$$

$$Y = 6/5, -2 = 1.2, -2$$

$$x > y$$

47) Answer: c)

$$\text{I. } 2x^2 + 12x + 16 = 0$$

$$2x^2 + 4x + 8x + 16 = 0$$

$$2x(x + 2) + 8(x + 2) = 0$$

$$(2x + 8)(x + 2) = 0$$

$$X = -4, -2$$

$$\text{II. } 3y^2 - 7y - 6 = 0$$

$$3y^2 - 9y + 2y - 6 = 0$$

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

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

$$Y = -2/3, 3 = -0.667, 3$$

$$x < y$$

48) Answer: a)

$$7x + 2y = -13 \text{ --à (1)}$$

$$5x - 4y = 7 \text{ --à (2)}$$

By solving the equation (1) and (2), we get,

$$X = -1, y = -3$$

$$x > y$$

49) Answer: e)

$$\text{I. } x^2 + 2x - 15 = 0$$

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

$$X = -5, 3$$

$$\text{II. } y^2 + y - 56 = 0$$

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TOP 50 Quadratic Equation Questions for Bank PO & Clerk Exams

$$(y + 8)(y - 7) = 0$$

$$Y = -8, 7$$

Can't be determined

50) Answer: c)

$$\text{I. } \sqrt{25x} + \sqrt{5625} = 0$$

$$5x = -75$$

$$X = -15$$

$$\text{II. } (243)^{1/5}y + (1728)^{1/3} = 0$$

$$(3^5)^{1/5}y = -(12^3)^{1/3}$$

$$3y = -12$$

$$Y = -4$$

$$x < y$$

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