



## Quadratic Equation Practice Questions 2021

1. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I.  $x^2 - 15x + 36 = 0$

II.  $10y^2 + 31y - 63 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: B.  $x > y$**

From equation I:

$$x^2 - 15x + 36 = (x - 12)(x - 3) = 0$$

$$\Rightarrow x = 12, 3$$

From equation II:

$$10y^2 + 31y - 63 = (5y - 7)(2y + 9) = 0$$

$$\Rightarrow y = 7/5, -9/2$$

So,  $x > y$

2. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I.  $x^2 - 20x + 96 = 0$

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

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: B.  $x > y$**

From equation I:

$$x^2 - 20x + 96 = (x - 12)(x - 8) = 0$$

$$\Rightarrow x = 12, 8$$

From equation II:

$$y^2 + y - 6 = (y - 2)(y + 3) = 0$$

$$\Rightarrow y = 2, -3$$

So,  $x > y$

3. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I.  $x^2 + 16x - 161 = 0$

II.  $y^2 - 31y + 210 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established





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**Correct Answers: A.  $x < y$**

$$\Rightarrow y = 7/2, -9/5$$

From equation I:

So,  $x > y$

$$x^2 + 16x - 161 = (x + 23)(x - 7) = 0$$

$$\Rightarrow x = -23, 7$$

From equation II:

$$y^2 - 31y + 210 = (y - 10)(y - 21) = 0$$

$$\Rightarrow y = 10, 21$$

So,  $x < y$

**4. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

I.  $x^2 - 44x + 483 = 0$

II.  $10y^2 - 17y - 63 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: B.  $x > y$**

From equation I:

$$x^2 - 44x + 483 = (x - 21)(x - 23) = 0$$

$$\Rightarrow x = 21, 23$$

From equation II:

$$10y^2 - 17y - 63 = (2y - 7)(5y + 9) = 0$$

**5. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

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

II.  $y^2 - 24y + 128 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: A.  $x < y$**

From equation I:

$$x^2 - x - 42 = (x + 6)(x - 7) = 0$$

$$\Rightarrow x = -6, 7$$

From equation II:

$$y^2 - 24y + 128 = (y - 8)(y - 16) = 0$$

$$\Rightarrow y = 8, 16$$

So,  $x < y$

**6. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

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

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II.  $y^2 - 28y + 187 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: A.  $x < y$**

From equation I:

$$9x^2 - 9x + 2 = (3x - 1)(3x - 2) = 0$$

$$\Rightarrow x = 1/3, 2/3$$

From equation II:

$$y^2 - 28y + 187 = (y - 17)(y - 11) = 0$$

$$\Rightarrow y = 17, 11$$

So,  $x < y$

**7. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

I.  $x^2 - 11x - 126 = 0$

II.  $y^2 + 30y + 224 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: B.  $x > y$**

From equation I:

$$x^2 - 11x - 126 = (x - 18)(x + 7) = 0$$

$$\Rightarrow x = 18, -7$$

From equation II:

$$y^2 + 30y + 224 = (y + 16)(y + 14) = 0$$

$$\Rightarrow y = -16, -14$$

So,  $x > y$

**8. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

I.  $x^2 - 15x + 36 = 0$

II.  $10y^2 + 43y - 9 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: D.  $x > y$**

From equation I:

$$x^2 - 15x + 36 = (x - 3)(x - 12) = 0$$

$$\Rightarrow x = 3, 12$$

From equation II:

$$10y^2 + 43y - 9 = (2y + 9)(5y - 1) = 0$$

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$$\Rightarrow y = -9/2, 1/5$$

$$\text{So, } x > y$$

9. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

$$\text{I. } x^2 + 15x + 54 = 0$$

$$\text{II. } y^2 - 5y - 66 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

**Correct Answers: C.  $x \leq y$**

From equation I:

$$x^2 + 15x + 54 = (x + 9)(x + 6) = 0$$

$$\Rightarrow x = -9, -6$$

From equation II:

$$y^2 - 5y - 66 = (y - 11)(y + 6) = 0$$

$$\Rightarrow y = 11, -6$$

$$\text{So, } x \leq y$$

10. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

$$\text{I. } x^2 + 9x - 22 = 0$$

$$\text{II. } y^2 - 33y + 270 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

**Correct Answers: A.  $x < y$**

From equation I:

$$x^2 + 9x - 22 = (x - 2)(x + 11) = 0$$

$$\Rightarrow x = 2, -11$$

From equation II:

$$y^2 - 33y + 270 = (y - 15)(y - 18) = 0$$

$$\Rightarrow y = 15, 18$$

$$\text{So, } x < y$$

11. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

$$\text{I. } 6x^2 + 41x + 70 = 0$$

$$\text{II. } y^2 + 16y - 17 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

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Correct Answers: E.  $x = y$  or relationship cannot be established

$$y^2 + 9y - 112 = (y - 7)(y + 16) = 0$$

$$\Rightarrow y = 7, -16$$

$$\text{So, } x > y$$

**13. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 + 12x - 45 = 0$$

$$\text{II. } y^2 - 16y + 55 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

**Correct Answers: A.  $x < y$**

From equation I:

$$x^2 + 12x - 45 = (x + 15)(x - 3) = 0$$

$$\Rightarrow x = -15, 3$$

From equation II:

$$y^2 - 16y + 55 = (y - 5)(y - 11) = 0$$

$$\Rightarrow y = 5, 11$$

$$\text{So, } x < y$$

**14. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

From equation I:

$$6x^2 + 41x + 70 = (2x + 7)(3x + 10) = 0$$

$$\Rightarrow x = -7/2, -10/3$$

From equation II:

$$y^2 + 16y - 17 = (y - 1)(y + 17) = 0$$

$$\Rightarrow y = 1, -17$$

So, relationship cannot be established between  $x$  and  $y$

**12. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 - 17x + 72 = 0$$

$$\text{II. } y^2 + 9y - 112 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

**Correct Answers: B.  $x > y$**

From equation I:

$$x^2 - 17x + 72 = (x - 9)(x - 8) = 0$$

$$\Rightarrow x = 9, 8$$

From equation II:

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I.  $x^2 + 18x + 77 = 0$

E  $x = y$  or relationship cannot be established

II.  $y^2 - 14y - 147 = 0$

**Correct Answers: B.  $x > y$**

A  $x < y$

From equation I:

B  $x > y$

$$x^2 - 42x + 440 = (x - 20)(x - 22) = 0$$

C  $x \leq y$

$$\Rightarrow x = 20, 22$$

D  $x \geq y$

From equation II:

E  $x = y$  or relationship cannot be established

$$y^2 - 19y + 88 = (y - 8)(y - 11) = 0$$

**Correct Answers: C.  $x \leq y$**

$$\Rightarrow y = 8, 11$$

From equation I:

So,  $x > y$

$$x^2 + 18x + 77 = (x + 7)(x + 11) = 0$$

$$\Rightarrow x = -7, -11$$

From equation II:

**16. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$y^2 - 14y - 147 = (y + 7)(y - 21) = 0$$

I.  $15x^2 - 2x - 24 = 0$

$$\Rightarrow y = -7, 21$$

II.  $y^2 - 20y + 84 = 0$

So,  $x \leq y$

A  $x < y$

**15. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

B  $x > y$

I.  $x^2 - 42x + 440 = 0$

C  $x \leq y$

II.  $y^2 - 19y + 88 = 0$

D  $x \geq y$

A  $x < y$

E  $x = y$  or relationship cannot be established

B  $x > y$

**Correct Answers: A.  $x < y$**

C  $x \leq y$

From equation I:

D  $x \geq y$

$$15x^2 - 2x - 24 = (5x + 6)(3x - 4) = 0$$

$$\Rightarrow x = -6/5, 4/3$$

From equation II:

$$y^2 - 20y + 84 = (y - 14)(y - 6) = 0$$

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$$\Rightarrow y = 14, 6$$

$$\text{So, } x < y$$

**17. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 + 21x + 110 = 0$$

$$\text{II. } y^2 + 15y + 56 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

**Correct Answers: A.  $x < y$**

From equation I:

$$x^2 + 21x + 110 = (x + 10)(x + 11) = 0$$

$$\Rightarrow x = -10, -11$$

From equation II:

$$y^2 + 15y + 56 = (y + 8)(y + 7) = 0$$

$$\Rightarrow y = -8, -7$$

$$\text{So, } x < y$$

**18. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 + 8x - 65 = 0$$

$$\text{II. } y^2 - 37y + 330 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

**Correct Answers: A.  $x < y$**

From equation I:

$$x^2 + 8x - 65 = (x - 5)(x + 13) = 0$$

$$\Rightarrow x = 5, -13$$

From equation II:

$$y^2 - 37y + 330 = (y - 15)(y - 22) = 0$$

$$\Rightarrow y = 15, 22$$

$$\text{So, } x < y$$

**19. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 + x - 306 = 0$$

$$\text{II. } y^2 - 12y - 28 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$





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**Correct Answers: E.  $x = y$  or relationship cannot be established**

$$\Rightarrow y = 4, -3$$

$$\text{So, } x > y$$

From equation I:

$$x^2 + x - 306 = (x - 17)(x + 18) = 0$$

$$\Rightarrow x = 17, -18$$

From equation II:

$$y^2 - 12y - 28 = (y - 14)(y + 2) = 0$$

$$\Rightarrow y = 14, -2$$

**20. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 - 40x + 399 = 0$$

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

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

E  $x = y$  or relationship cannot be established

**Correct Answers: B.  $x > y$**

From equation I:

$$x^2 - 40x + 399 = (x - 21)(x - 19) = 0$$

$$\Rightarrow x = 21, 19$$

From equation II:

$$y^2 - y - 12 = (y - 4)(y + 3) = 0$$

**21. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } 9x^2 - 64 = 0$$

$$\text{II. } y^2 + 28y + 147 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

E  $x = y$  or relationship cannot be established

**Correct Answers: B.  $x > y$**

From equation I:

$$9x^2 - 64 = (3x + 8)(3x - 8) = 0$$

$$\Rightarrow x = -8/3, 8/3$$

From equation II:

$$y^2 + 28y + 147 = (y + 21)(y + 7) = 0$$

$$\Rightarrow y = -21, -7$$

$$\text{So, } x > y$$

**22. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 + 11x + 30 = 0$$







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II.  $y^2 - 5y - 50 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: C.  $x \leq y$**

From equation I:

$$x^2 + 11x + 30 = (x + 6)(x + 5) = 0$$

$$\Rightarrow x = -6, -5$$

From equation II:

$$y^2 - 5y - 50 = (y - 10)(y + 5) = 0$$

$$\Rightarrow y = 10, -5$$

So,  $x \leq y$

**23. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

I.  $x^2 + 30x + 209 = 0$

II.  $10y^2 - 27y - 81 = 0$

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: A.  $x < y$**

From equation I:

$$x^2 + 30x + 209 = (x + 11)(x + 19) = 0$$

$$\Rightarrow x = -11, -19$$

From equation II:

$$10y^2 - 27y - 81 = (2y - 9)(5y + 9) = 0$$

$$\Rightarrow y = 9/2, -9/5$$

So,  $x < y$

**24. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

I.  $x^2 - 40x + 396 = 0$

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

A  $x < y$

B  $x > y$

C  $x \leq y$

D  $x \geq y$

E  $x = y$  or relationship cannot be established

**Correct Answers: B.  $x > y$**

From equation I:

$$x^2 - 40x + 396 = (x - 22)(x - 18) = 0$$

$$\Rightarrow x = 22, 18$$

From equation II:

$$y^2 - 7y + 6 = (y - 1)(y - 6) = 0$$

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$$\Rightarrow y = 1, 6$$

$$\text{So, } x > y$$

**25. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 - x - 132 = 0$$

$$\text{II. } y^2 - 31y + 234 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

**Correct Answers: A.  $x < y$**

From equation I:

$$x^2 - x - 132 = (x + 11)(x - 12) = 0$$

$$\Rightarrow x = -11, 12$$

From equation II:

$$y^2 - 31y + 234 = (y - 18)(y - 13) = 0$$

$$\Rightarrow y = 18, 13$$

$$\text{So, } x < y$$

**26. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } 15x^2 + 4x - 3 = 0$$

$$\text{II. } y^2 + 28y + 115 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

**Correct Answers: B.  $x > y$**

From equation I:

$$15x^2 + 4x - 3 = (3x - 1)(5x + 3) = 0$$

$$\Rightarrow x = 1/3, -3/5$$

From equation II:

$$y^2 + 28y + 115 = (y + 5)(y + 23) = 0$$

$$\Rightarrow y = -5, -23$$

$$\text{So, } x > y$$

**27. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } 6x^2 - 7x - 24 = 0$$

$$\text{II. } y^2 + 31y + 238 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

$$\text{E } x = y \text{ or relationship cannot be established}$$

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**Correct Answers: B.  $x > y$**

$$\Rightarrow y = -21, -14$$

From equation I:

So,  $x > y$

$$6x^2 - 7x - 24 = (3x - 8)(2x + 3) = 0$$

$$\Rightarrow x = 8/3, -3/2$$

From equation II:

$$y^2 + 31y + 238 = (y + 14)(y + 17) = 0$$

$$\Rightarrow y = -14, -17$$

So,  $x > y$

**28. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 - 15x - 100 = 0$$

$$\text{II. } y^2 + 35y + 294 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

E  $x = y$  or relationship cannot be established

**Correct Answers: B.  $x > y$**

From equation I:

$$x^2 - 15x - 100 = (x + 5)(x - 20) = 0$$

$$\Rightarrow x = -5, 20$$

From equation II:

$$y^2 + 35y + 294 = (y + 21)(y + 14) = 0$$

**29. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 - 17x - 38 = 0$$

$$\text{II. } y^2 - 39y + 380 = 0$$

$$\text{A } x < y$$

$$\text{B } x > y$$

$$\text{C } x \leq y$$

$$\text{D } x \geq y$$

E  $x = y$  or relationship cannot be established

**Correct Answers: C.  $x \leq y$**

From equation I:

$$x^2 - 17x - 38 = (x - 19)(x + 2) = 0$$

$$\Rightarrow x = 19, -2$$

From equation II:

$$y^2 - 39y + 380 = (y - 20)(y - 19) = 0$$

$$\Rightarrow y = 20, 19$$

So,  $x \leq y$

**30. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.**

$$\text{I. } x^2 + 14x + 40 = 0$$

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II.  $y^2 + 28y + 192 = 0$

From equation I:

A  $x < y$

$$x^2 + 14x + 40 = (x + 4)(x + 10) = 0$$

B  $x > y$

$$\Rightarrow x = -4, -10$$

C  $x \leq y$

From equation II:

D  $x \geq y$

$$y^2 + 28y + 192 = (y + 16)(y + 12) = 0$$

E  $x = y$  or relationship cannot be established

$$\Rightarrow y = -16, -12$$

Correct Answers: B.  $x > y$

So,  $x > y$

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