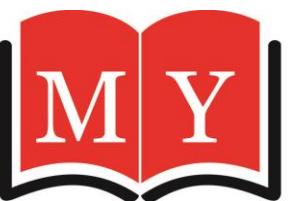


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# Most Important Quadratic Equation 100 Questions PDF

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**QUADRATIC EQUATIONS**

- 1.** I.  $2x^2+x-21 = 0$   
 II.  $3y^2+4y+32 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation
- 2.** I.  $x^2-6x+135 = 0$   
 II.  $y^2-30y+225 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation
- 3.** I.  $\frac{25}{\sqrt{x}} - 4\sqrt{x} = \sqrt{x}$   
 II.  $2y + \frac{y^2+50}{y} = 5y$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation
- 4.** I.  $x^2-43x+462 = 0$   
 II.  $y^2-37y+342 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation
- 5.** I.  $\sqrt{x} + \frac{28}{\sqrt{x}} = 5\sqrt{x}$   
 II.  $\sqrt{y} + \frac{y+35}{\sqrt{y}} = 7\sqrt{y}$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation
- 6.** I.  $\frac{12}{\sqrt{x}} + \frac{8}{\sqrt{x}} = 8\sqrt{x}$   
 II.  $\frac{\sqrt{y}}{4} + \frac{5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$
- (A)  $x > y$       (B)  $x \geq y$   
 (C)  $x < y$       (D)  $x \leq y$   
 (E)  $x = y$  or the relationship cannot be established
- 7.** I.  $\frac{8}{\sqrt{x}} + \frac{6}{\sqrt{x}} = \sqrt{x}$   
 II.  $y^3 - \frac{(14)^2}{\sqrt{y}} = 0$   
 (A)  $x > y$       (B)  $x \geq y$   
 (C)  $x < y$       (D)  $x \leq y$   
 (E)  $x = y$  or the relationship cannot be established.
- 8.** I.  $\frac{25}{x^2} - \frac{12}{x} + \frac{9}{x^2} = \frac{4}{x^2}$   
 II.  $9.84 - 2.64 = 0.95 + y^2$   
 (A)  $x > y$       (B)  $x \geq y$   
 (C)  $x < y$       (D)  $x \leq y$   
 (E)  $x = y$  or the relationship cannot be established.
- 9.** I.  $\frac{3^4+5^3}{2} = x^3$   
 II.  $12y^3 = -(15 \times 20) + 17y^3$   
 (A)  $x > y$       (B)  $x \geq y$   
 (C)  $x < y$       (D)  $x \leq y$   
 (E)  $x = y$  or the relationship cannot be established.
- 10.** I.  $(x-8)(2y+9) = 25$   
 II.  $(2x-16)(y-4) = 8$   
 (A)  $x < y$       (B)  $x \geq y$   
 (C)  $x > y$       (D)  $x \leq y$   
 (E)  $x = y$  or the relationship cannot be established

- 11.** I.  $4x^2 - 25x + 25 = 0$   
 II.  $2y^2 - 13y + 21 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

- 12.** I.  $2x^2 - 6x - 48 = 0$   
 II.  $y^2 - 13y + 42 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

- 13.** I.  $3\sqrt{x} - \frac{18}{\sqrt{x}} = \sqrt{x}$   
 II.  $2\sqrt{y} + \frac{y-36}{\sqrt{y}} = -\sqrt{y}$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

- 14.** I.  $4x^4 = \frac{128}{x}$   
 II.  $\sqrt{y} + \frac{15y}{\sqrt{y}} = 4y^{\frac{5}{2}}$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

- 15.** I.  $(x-8)(2y+9) = 25$   
 II.  $(2x-16)(y-4) = 8$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

- 16.** I.  $x^2 - 50x + 621 = 0$   
 II.  $y^2 - 42y + 437 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation



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- 17.** I.  $\frac{32}{\sqrt{x}} + \sqrt{x} = 5\sqrt{x}$   
 II.  $3y + \frac{y^2+64}{y} = 5y$   
 (A)  $x > y$       (B)  $x \geq y$   
 (C)  $x \leq y$       (D)  $x < y$   
 (E)  $x = y$  or no relation

- 18.** I.  $\frac{3^3+6^2}{7} = x^2$   
 II.  $17y^3 = (15 \times 9) + 12y^3$   
 (A)  $x > y$       (B)  $x \geq y$   
 (C)  $x < y$       (D)  $x \leq y$   
 (E)  $x = y$  or the relationship cannot be established

- 19.** I.  $6x^2 - 19x - 36 = 0$   
 II.  $4y^2 - 47y + 120 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

**20.** I.  $4x^4 = \frac{128}{x}$

II.  $\sqrt{y + \frac{15y}{\sqrt{y}}} = 4y^{\frac{5}{2}}$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

**21.** I.  $2x^2 + 21x + 34 = 0$

II.  $3y^2 + 23y + 42 = 0$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

**22.** I.  $x^2 - 15x - 364 = 0$

II.  $y^2 + 31y + 240 = 0$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

**23.** I.  $x^2 - 3481 = 0$

II.  $y^2 - 118y + 3481 = 0$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

**24.** I.  $2x^2 + 11x + 15 = 0$

II.  $4y^2 + 16y + 15 = 0$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

**25.** I.  $x^3 - 9x^2 + 20x = 0$

II.  $y^3 - 14y^2 + 48y = 0$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

**26.** I.  $2x^2 + x - 6 = 0$

II.  $3y^2 + y - 8 = 0$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

**27.** I.  $7x + 4y = 5$

II.  $5x + 3y = 3$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

**28.** I.  $\frac{25}{\sqrt{x}} - 2\sqrt{x} = 3\sqrt{x}$

II.  $2y + \frac{y^2 + 50}{y} = 5y$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

**29.** I.  $x^2 + 4x - 28 = 0$

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

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

**30.** I.  $2x^2 - 6x - 48 = 0$

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

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

**31.** I.  $8x + 6y = 52$

II.  $7x + 5y = 45$

- (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation



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32. I.  $x^2 = 36$   
 II.  $y^2 + 11y + 30 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

33. I.  $2x^2 + 21x + 34 = 0$   
 II.  $3y^2 + 23y + 42 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

34. I.  $x^2 - 15x - 364 = 0$   
 II.  $y^2 + 31y + 240 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

35. I.  $x^2 - 3481 = 0$   
 II.  $y^2 - 118y + 3481 = 0$   
 (A)  $x > y$       (B)  $x < y$

- (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

36. I.  $x^2 + 14x + 48 = 0$   
 II.  $y^2 + 11y + 30 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

37. I.  $x^2 - 14x + 49 = 0$   
 II.  $y^2 - 13y + 40 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

38. I.  $3\sqrt{x} - \frac{18}{\sqrt{x}} = \sqrt{x}$   
 II.  $2\sqrt{y} + \frac{y-36}{\sqrt{y}} = -\sqrt{y}$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

39. I.  $2x^2 - 5x - 18 = 0$   
 II.  $y^2 - 13y + 42 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation

40. I.  $3x^2 - 27x + 54 = 0$   
 II.  $2y^2 - 9y + 10 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

41. I.  $\frac{6^3 + 9^2}{11} = x^3$   
 II.  $15y^3 = (36 \times 18) + 12y^3$

- (A)  $x > y$       (B)  $x \geq y$   
 (C)  $x < y$       (D)  $x \leq y$   
 (E)  $x = y$  or the relationship cannot be established

- 42.** I.  $x^2 - 50x + 621 = 0$   
 II.  $y^2 - 42y + 437 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \leq y$       (D)  $x \geq y$   
 (E)  $x = y$  or no relation
- 43.** I.  $x^2 - 33x - 270 = 0$   
 II.  $y^2 + 37y + 342 = 0$   
 (A)  $x > y$       (B)  $x < y$   
 (C)  $x \geq y$       (D)  $x \leq y$   
 (E)  $x = y$  or no relation

- 44.** I. Quantity I :  $x^2 + 25x + 136 = 0$   
 II. Quantity II :  $x^2 - 7x - 120 = 0$   
 (A) Quantity I > Quantity II  
 (B) Quantity I < Quantity II  
 (C) Quantity I  $\geq$  Quantity II  
 (D) Quantity I  $\leq$  Quantity II  
 (E) Quantity I = Quantity II OR  
 relationship cannot be determined.

- 45.** I. Quantity I:  $4x^4 = \frac{128}{x}$   
 II. Quantity II:  $\sqrt{x} + \frac{15x}{\sqrt{x}} = 4x^{\frac{5}{2}}$   
 (A) Quantity I > Quantity II  
 (B) Quantity I < Quantity II  
 (C) Quantity I  $\geq$  Quantity II  
 (D) Quantity I  $\leq$  Quantity II  
 (E) Quantity I = Quantity II OR  
 relationship cannot be determined.

**Direction (Q. 46-50):** In the following question, one or two equation(s)

is/are given. You have to solve both the equations and find the relation between 'x' and 'y' and mark correct answer.

- (A)  $x > y$       (B)  $x \geq y$   
 (C)  $x < y$       (D)  $x \leq y$   
 (E)  $x = y$  or the relation cannot be determined

- 46.** I.  $x^2 + 6x + 8 = 0$   
 II.  $y^2 + 7y + 12 = 0$

- 47.** I.  $2x^2 + 15x + 13 = 0$   
 II.  $y^2 - 7y + 12 = 0$

- 48.** I.  $x^3 - 375 = 3000$   
 II.  $y^3 + 600 = 769$

- 49.** I.  $x^2 + 84x + 468 = 0$   
 II.  $y^2 + 3y + 2 = 0$

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

**Directions (Q. 51-55) :** Two equations (I) and (II) are given in each question. On the basis of these equations, you have to decide the relation between x and y and give answer

- (A) If  $x > y$       (B) If  $x < y$   
 (C) If  $x \geq y$       (D) If  $x \leq y$   
 (E) If  $x = y$ , or no relation can be established between x and y.

- 51.** I.  $5x^2 - 87x + 378 = 0$   
 II.  $3y^2 - 49y + 200 = 0$

- 52.** I.  $10x^2 - x - 24 = 0$   
 II.  $y^2 - 2y = 0$

53. I.  $x^2 - 5x + 6 = 0$

II.  $2y^2 - 15y + 27 = 0$

54. I.  $3x + 2y = 301$

II.  $7x - 5y = 74$

55. I.  $14x^2 - 37x + 24 = 0$

II.  $28y^2 - 53y + 24 = 0$

**Direction (Q. 55-60):** In the following questions two equations numbered I and II are given. You have to solve both the equations and give answer—

(A) If  $x > y$       (B) If  $x \geq y$ (C) If  $x < y$       (D) If  $x \leq y$ (E) If  $x = y$  or the relationship can't be established

56. I.  $5x + 3y = 16$

II.  $3x + 2y = 34$

57. I.  $x^2 - 7x + 12 = 0$

II.  $y^2 + 12y + 32 = 0$

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

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

59. I.  $x^2 + 38x + 192 = 0$

II.  $y^2 - 18y + 65 = 0$

60. I.  $x^4 - 1000 = 296$

II.  $y^2 + 330 = 346$

**Direction (Q. 61-65):** In the following questions two equations numbered I and II are given. You have to solve both the equations and give answer

- (A) if  $x > y$       (B) if  $x \geq y$   
 (C) if  $x < y$       (D) if  $x \leq y$   
 (E) if  $x = y$  or the relationship cannot be established.

61. I.  $4x - 9y = 5$

II.  $x - 5y = -1$

62. I.  $x^2 = 225$

II.  $y = \sqrt{1369}$

63. I.  $x = \sqrt{5.76}$

II.  $y + x^2 = 0.36$

64. I.  $21x^2 - 26x + 5 = 0$

II.  $y = \sqrt{0.1024}$

65. I.  $x^2 - 6x + 8 = 0$

II.  $y^2 - 14y + 48 = 0$

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**Directions (Q. 66-70) :** In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer

- (A) if  $x > y$       (B) if  $x \geq y$   
 (C) if  $x < y$       (D) if  $x \leq y$   
 (E) if  $x = y$  or relation cannot be established between 'x' and 'y'.

**66.** I.  $x^2 + 3x - 40 = 0$

II.  $y^2 - 14y + 48 = 0$

**67.** I.  $x^2 + x - 2 = 0$

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

**68.** I.  $2x^2 + 13x + 21 = 0$

II.  $2y^2 + 27y + 88 = 0$

**69.** I.  $x^2 + 11x + 30 = 0$

II.  $y^2 + 12y + 36 = 0$

**70.** I.  $2x^2 + x - 1 = 0$

II.  $2y^2 - 3y + 1 = 0$

**Directions (Q. 71-75) :** Two equations I and II are given below in each question. You have to solve these equations and give answer

- (A) if  $x < y$       (B) if  $x > y$   
 (C) if  $x \leq y$       (D) if  $x \geq y$   
 (E) if  $x = y$  or no relation can be established.

**71.** I.  $225x^2 - 4 = 0$

II.  $\sqrt{225}y + 2 = 0$

**72.** I.  $\frac{3}{\sqrt{x}} + \frac{4}{\sqrt{x}} = \sqrt{x}$   
 II.  $y^3 - \frac{(7)^{\frac{7}{2}}}{\sqrt{y}} = 0$

**73.** I.  $9x - 15.45 = 54.55 + 4x$

II.  $\sqrt{y + 155} - \sqrt{36} = \sqrt{49}$

**74.** I.  $x^2 + 9x + 18 = 0$

II.  $y^2 - 13y + 40 = 0$

**75.** I.  $\sqrt{x + 6} = \sqrt{121} - \sqrt{36}$

II.  $y^2 + 112 = 473$

**Directions (Q. 76-80):** Two equations I and II are given below in each question. You have to solve these equations and give answer:

- (A) if  $x < y$       (B) if  $x > y$   
 (C) if  $x \leq y$       (D) if  $x \geq y$   
 (E) if  $x = y$  or no relation can be established.

**76.** I.  $(441)^{\frac{1}{2}}x^2 - 111 = (15)^2$

II.  $\sqrt{121}y^2 + (6)^3 = 260$

**77.** I.  $17x + (13)^2 - 114 = (15)^2$

II.  $\sqrt{121}y^2 + (6)^3 = 260$

**78.** I.  $17x = (13)^2 + \sqrt{196} + (5)^2 + 4x$

II.  $9y - 345 = 4y - 260$

**79.** I.  $6y^2 + \frac{1}{2} = \frac{7}{2}y$

II.  $12x^2 + 2 = 10x$

**80.** I.  $4x^2 = 49$

II.  $9y^2 - 66y + 121 = 0$



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**Directions (Q. 81-85) :** Two equations I and II are given below in each question. You have to solve these equations and give answer:

- (A) if  $x < y$       (B) if  $x > y$   
 (C) if  $x < y$       (D) if  $x > y$   
 (E) if  $x = y$  or no relation can be established.

**81.** I.  $4x + 7y = 209$   
 II.  $12x - 14y = -38$

**82.** I.  $6x^2 - 25x + 25 = 0$   
 II.  $15y^2 - 16y + 4 = 0$

**83.** I.  $6x + 5y = 30xy$   
 II.  $5x + 6y = 35xy$

**84.** I.  $\frac{9}{\sqrt{x}} + \frac{19}{\sqrt{x}} = \sqrt{x}$   
 II.  $y^5 - \frac{(2 \times 14)^{\frac{11}{2}}}{\sqrt{y}} = 0$

**85.** I.  $\sqrt{784}x + 1234 = 1486$   
 II.  $\sqrt{1089}y + 2081 = 2345$

**Directions (Q. 86-90) :** Two equations I and II are given below in each question. You have to solve these equations and give answer.

- (A) if  $x < y$       (B) if  $x > y$   
 (C) if  $x < y$       (D) if  $x > y$   
 (E) if  $x = y$  or no relation can be established.

**86.** I.  $\sqrt{x+18} = \sqrt{144} - \sqrt{49}$   
 II.  $y^2 + 409 = 473$

**87.** I.  $y^2 - x^2 = 32$   
 II.  $y - x = 2$

**88.** I.  $\sqrt{x} - \frac{\sqrt{5}}{\sqrt{x}} = 0$   
 II.  $y^3 - 5^{\left(\frac{3}{2}\right)} = 0$

**89.** I.  $8x^2 + 78x + 169 = 0$   
 II.  $20y^2 - 117y + 169 = 0$

**90.** I.  $\frac{15}{\sqrt{x}} + \frac{9}{\sqrt{x}} = 11\sqrt{x}$   
 II.  $\frac{\sqrt{y}}{4} + \frac{5\sqrt{y}}{12} = \frac{1}{\sqrt{y}}$

**Directions (Q. 91-95):** In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

- (A) if  $x > y$       (B) if  $x \geq y$   
 (C) if  $x < y$       (D) if  $x \leq y$   
 (E) if  $x = y$  or the relationship between x and y cannot be established

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

92. I.  $x = \sqrt{5329}$   
II.  $y = \sqrt[3]{12167}$

93. I.  $3x^2 - 59x + 210 = 0$   
II.  $2y^2 - 17y + 36 = 0$

94. I.  $15x^2 - 41x + 28 = 0$   
II.  $7y^2 - 29y + 30 = 0$

95. I.  $x^2 = -14x$   
II.  $y^2 + 18y + 80 = 0$

Directions (Q. 96-100) : Two equations I and II are given below in each question. You have to solve these equations and give answer

- (A) if  $x < y$    (B) if  $x > y$   
(C) if  $x \leq y$    (D) if  $x \geq y$   
(E) if  $x = y$  or no relation can be established.

96. I.  $x^2 = 4$   
II.  $y^2 + 4y = -4$

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97. I.  $3x + 2y - 58 = 0$   
II.  $4x + 4y = 92$

98. I.  $4x^2 - 8x + 3 = 0$   
II.  $2y^2 - 7y + 6 = 0$

99. I.  $18x^2 + 18x + 4 = 0$   
II.  $12y^2 + 29y + 14 = 0$

100. I.  $17x^2 + 48x = 9$   
II.  $13y^2 = 32y - 12$

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