

## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

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Directions (1-73): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give answer as,

1.

I).  $x^2 - 24x + 135 = 0$

II).  $y^2 - 45y + 450 = 0$

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

2.

I).  $x^2 - 14x - 176 = 0$

II).  $y^2 + 12y - 189 = 0$

- A.  $x < y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x \leq y$
- E.  $x > y$

3.

I).  $x^2 + 21x - 270 = 0$

II).  $y^2 - 34y + 225 = 0$

- A.  $x \leq y$

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**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

- B.  $x \geq y$   
C.  $x < y$   
D.  $x = y$  or relationship can't be determined  
E.  $x > y$
4.  
I).  $6x + 5y = 8$   
II).  $3x + 2y = 3$   
A.  $x \geq y$   
B.  $x > y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$
5.  
I).  $x^2 - 6x - 55 = 0$   
II).  $y^2 - 26y + 165 = 0$   
A. If  $x < y$   
B. If  $x > y$   
C. If  $x \leq y$   
D. If  $x \geq y$   
E. If  $x = y$  or relationship between  $x$  and  $y$  cannot be determined
6.  
I).  $(x - 2)(x - 5) + 2 = 0$   
II).  $y^2 - 11y + 28 = 0$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

7.  
I).  $x^2 - 4x - 60 = 0$   
II).  $y^2 - 25y + 156 = 0$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$
8.  
I).  $(x/y) - (x/35) = 1/7$   
II).  $y = \sqrt{256} + \sqrt{144}$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$
9.  
I).  $x^3 = 2744$   
II).  $y^2 - 196 = 0$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$
10.  
I).  $x^2 - 28x + 192 = 0$   
II).  $y^2 - 21y + 110 = 0$   
A.  $x > y$   
B.  $x \geq y$

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C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

11.

I)  $4x^2 - 27x + 35 = 0$

II)  $y^2 - 5y + 6 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

12.

I)  $x^2 - 5x - 104 = 0$

II)  $y^2 + 23y + 120 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

13.

I)  $3x^2 + x - 24 = 0$

II)  $2y^2 - 25y + 78 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

14.

I)  $5x^2 + 17x + 14 = 0$

II)  $y^2 + 11y + 24 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

15.

I)  $x^2 - 8x + 15 = 0$

II)  $y^2 - 22y + 85 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

16.

I)  $2x^2 - 17x + 36 = 0$

II)  $y^2 - 6y + 9 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

17.

I)  $4x^2 + 12x + 9 = 0$

II)  $3y^2 + 7y + 4 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

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E.  $x \leq y$

18.

I)  $x^2 + 13x + 42 = 0$

II)  $y^2 + 23y + 132 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

19.

I)  $3x^2 - 13x + 14 = 0$

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

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

20.

I)  $x^2 - x - 110 = 0$

II)  $y^3 = 1331$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

21.

I)  $x^2 + 13x + 36 = 0$

II)  $y^2 - 3y - 28 = 0$

A.  $x > y$

B.  $x < y$

C.  $x \geq y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined.

22.

I)  $x^2 - 15x + 56 = 0$

II)  $y^2 - 11y + 30 = 0$

A.  $x > y$

B.  $x < y$

C.  $x \geq y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined

23.

I)  $x^2 - 18x + 80 = 0$

II)  $y^2 + 41 = 105$

A.  $x > y$

B.  $x < y$

C.  $x \geq y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined.

24.

I)  $3x^2 - 5x - 22 = 0$

II)  $y^2 + 3y - 40 = 0$

A.  $x > y$

B.  $x < y$

C.  $x \geq y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined.

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25.

I)  $2x^2 + 9x + 10 = 0$

II)  $y^2 + 8y + 15 = 0$

A.  $x > y$

B.  $x < y$

C.  $x \geq y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined.

26.

I)  $x^2 + 7x - 120 = 0$

II)  $y^2 - 2y - 63 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

27.

I)  $5x + 2y = 32$

II)  $5y + x = 34$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

28.

I)  $3x^2 + 19x + 30 = 0$

II)  $y^2 + 13y + 40 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

29.

I)  $x^2 - 10x + 24 = 0$

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

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

30.

I)  $2x^2 - 9x + 10 = 0$

II)  $3y^2 - 2y - 8 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

31.

I)  $x^2 - 30x + 221 = 0$

II)  $y^2 - 23y + 132 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

32.

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

I)  $x^2 - 20x + 100 = 0$

II)  $y^2 + 5y - 150 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

33.

I)  $x^2 + 30x + 221 = 0$

II)  $y^2 + 25y + 156 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

34.

I)  $2x^2 - 32x + 126 = 0$

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

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

35.

I)  $x^2 - 16x + 60 = 0$

II)  $y^2 - 11y + 30 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

36.

I:  $x^2 + 11x + 30 = 0$

II:  $y^2 + 16y + 63 = 0$

A.  $x < y$

B.  $x > y$

C.  $x \leq y$

D.  $x \geq y$

E.  $x = y$  or Relationship between  $x$  and  $y$  cannot be determined

37.

I:  $x^2 - 5x - 24 = 0$

II:  $y^2 - 17y + 72 = 0$

A.  $x < y$

B.  $x > y$

C.  $x \leq y$

D.  $x \geq y$

E.  $x = y$  or Relationship between  $x$  and  $y$  cannot be determined

38.

I:  $2x^2 - 11x + 14 = 0$

II:  $y^2 - 7y + 12 = 0$

A.  $x < y$

B.  $x > y$

C.  $x \leq y$

D.  $x \geq y$

E.  $x = y$  or Relationship between  $x$  and  $y$  cannot be determined

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39.

I:  $3x^2 + 13x + 12 = 0$

II:  $3y^2 - 14y + 16 = 0$

A.  $x < y$

B.  $x > y$

C.  $x \leq y$

D.  $x \geq y$

E.  $x = y$  or Relationship between  $x$  and  $y$  cannot be determined

40.

I:  $x^2 + 5x - 14 = 0$

II:  $2y^2 - 19y + 42 = 0$

A.  $x < y$

B.  $x > y$

C.  $x \leq y$

D.  $x \geq y$

E.  $x = y$  or Relationship between  $x$  and  $y$  cannot be determined

41.

I.  $x^2 - 15x + 54 = 0$

II.  $y^2 - 4y - 117 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

42.

I)  $x^2 - 5x - 204 = 0$

II)  $y^2 + 27y + 180 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

43.

I)  $x^2 + 2x - 99 = 0$

II)  $y^2 - 19y + 90 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

44.

I)  $x^2 + x - 182 = 0$

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

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

45.

I)  $2x^2 - 13x + 20 = 0$

II)  $y^2 - 17y + 52 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

46.

I)  $x^2 - 40x + 384 = 0$

II)  $y^2 - 26y = -168$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

47.

I)  $x^2 = 25$

II)  $y^4 = 625$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

48.

I)  $2x^2 - 8x + 6 = 0$

II)  $y^2 - 6y + 9 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

49.

I)  $6x^2 - 13x + 6 = 0$

II)  $y^2 - 9y + 18 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

50.

I)  $x^2 - 16x - 36 = 0$

II)  $y^2 - 12y - 45 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

51.

I)  $5x^2 + 12x + 7 = 0$

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

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

52.

I)  $x^2 + 14x + 33 = 0$

II)  $y^2 - 7x - 30 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

53.

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

I)  $x^2 - 5x - 14 = 0$

II)  $y^2 - 16y + 64 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

54.

I)  $x^2 + x - 12 = 0$

II)  $y^2 + 2y - 15 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

55.

I)  $x^2 - 9x + 20 = 0$

II)  $y^2 - 7y + 12 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

56.

I)  $x^2 + 9x + 20 = 0$

II)  $8y^2 - 15y + 7 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

57.

I)  $x^2 - 7x + 10 = 0$

II)  $y^2 + 8y + 15 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

58.

I)  $x^2 - 5x + 6 = 0$

II)  $y^2 - 12y + 27 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

59.

I)  $x^2 = 16$

II)  $y^2 - 8y + 16 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

60.

I)  $3x^2 - 18x + 24 = 0$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

II)  $y^2 - 9y + 18 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

61.

I)  $x^2 - 27x + 180 = 0$

II)  $y^2 - 23y + 132 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

62.

I)  $x^2 - 32x + 192 = 0$

II)  $y^2 - 50y + 625 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

63.

I)  $x^3 = -343$

II)  $y^2 + 17y + 72 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$

E.  $x \leq y$

64.

I)  $x^2 + 9x - 190 = 0$

II)  $y^2 - 24y + 143 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

65.

I)  $3x^2 + 14x + 16 = 0$

II)  $4y^2 + 13y + 10 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

66.

I)  $x^2 - 3x - 54 = 0$

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

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

67.

I)  $x^2 - 19x + 78 = 0$

II)  $y^2 + 9y - 70 = 0$

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- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

68.

- I)  $x^2 - 10x + 24 = 0$   
II)  $y^2 - 18y + 45 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

69.

- I)  $3x^2 - 16x + 20 = 0$   
II)  $y^2 + 3y - 10 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

70.

- I)  $x^2 - 19x + 84 = 0$   
II)  $y^2 - 21y + 110 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

71.

- I)  $5x^2 - 19x + 18 = 0$   
II)  $y^2 - 8y + 12 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

72.

- I)  $x^2 - 31x + 228 = 0$   
II)  $y^2 - 15y + 56 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

73.

- I)  $x^2 + 12x + 32 = 0$   
II)  $y^2 + 5y + 6 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

Directions (74-78): In each of the following questions, two equations are given. You have to solve both the equations to find the relation between  $x$  and  $y$ .

74.

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

I)  $x^2 + 15x + 56 = 0$

II)  $y^2 + 20y + 91 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

75.

I)  $3x^2 - 36x = 0$

II)  $y^2 + 14y + 33 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

76.

I)  $x + 3y = 15$

II)  $2x + y = 10$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

77.

I)  $x^2 - 29x + 168 = 0$

II)  $y^2 + 10y - 144 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

78.

I)  $x^2 - 38x + 352 = 0$

II)  $y^2 - 41y + 418 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

Directions (79-88): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

79.

I)  $x^2 - 28x + 192 = 0$

II)  $y^2 - 20y + 96 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

80.

I)  $x^2 + 9x - 52 = 0$

II)  $y^2 - 14y + 40 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

D.  $x < y$

E.  $x \leq y$

81.

I)  $x^2 - 5x - 300 = 0$

II)  $y^2 + 27y + 180 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x < y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined.

82.

I)  $x^2 + 13x + 42 = 0$

II)  $y^2 + 18y + 80 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x < y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined.

83.

I)  $x^2 + 4x - 45 = 0$

II)  $y^2 - 17y + 60 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x < y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined.

84.

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

II).  $y^2 - 13y + 36 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

85.

I).  $4x^2 - 16x + 15 = 0$

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

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

86.

I).  $x^2 - 14x + 45 = 0$

II).  $y^2 + 3y - 40 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

87.

I).  $x^2 - 19x + 88 = 0$

II).  $y^2 - 23y + 132 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

E.  $x \leq y$

88.

I).  $x^2 + 10x + 9 = 0$

II).  $y^2 + 24y + 140 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

Directions (89-98): In each of the following questions, two equations are given. You have to solve both the equations to find the relation between  $x$  and  $y$ .

89.

I)  $x^2 - 7x - 368 = 0$

II)  $y^2 + 2y - 575 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

90.

I)  $x^2 + 26x - 120 = 0$

II)  $y^2 - 26y + 88 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

91.

I)  $x^2 + 35x + 306 = 0$

II)  $y^2 + 40y + 391 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

92.

I)  $x^2 - 32x + 252 = 0$

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

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

93.

I)  $2x + 3y = 73$

II)  $x + 3y = 59$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

94.

I).  $x^2 = 196$

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

A.  $x < y$

B.  $x > y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

- C.  $x \leq y$   
D.  $x \geq y$   
E. Relationship between  $x$  and  $y$  cannot be determined

95.

- I).  $x^3 = 6859$   
II).  $y^3 = 3375$

- A.  $x < y$   
B.  $x > y$   
C.  $x \leq y$   
D.  $x \geq y$   
E. Relationship between  $x$  and  $y$  cannot be determined

96.

- I).  $2x^2 + 19x + 42 = 0$   
II).  $4y^2 + 43y + 30 = 0$

- A.  $x < y$   
B.  $x > y$   
C.  $x \leq y$   
D.  $x \geq y$   
E. Relationship between  $x$  and  $y$  cannot be determined

97.

- I).  $72 - 30x = -2x^2$   
II).  $y^2 - 40/6 = 7/3$

- A.  $x < y$   
B.  $x > y$   
C.  $x \leq y$   
D.  $x \geq y$

- E. Relationship between  $x$  and  $y$  cannot be determined

98.

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

- A.  $x < y$   
B.  $x > y$   
C.  $x \leq y$   
D.  $x \geq y$   
E. Relationship between  $x$  and  $y$  cannot be determined

**Directions (99-151):** The following questions contain two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

99.

- I).  $x^2 + 5x - 126 = 0$   
II).  $y^2 - 22y + 117 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

100.

- I).  $3x^2 - 5x - 12 = 0$   
II).  $2y^2 - 21y + 54 = 0$

- A.  $x > y$   
B.  $x \geq y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

- C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

101.

- I).  $x^2 - 22x + 105 = 0$   
II).  $y^2 - 24y + 128 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

102.

- I).  $2x^2 - 28x + 96 = 0$   
II).  $y^2 - 22y + 120 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

103.

- I).  $x^2 - x - 20 = 0$   
II).  $y^2 - 9y - 22 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

104.

I)  $2x^2 - 9x + 10 = 0$

II)  $3y^2 + 4y - 20 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

105.

- I)  $x^2 + 13x + 40 = 0$   
II)  $y^2 - 21y + 108 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

106.

- I)  $x^2 - 2x - 63 = 0$   
II)  $y^2 + y - 132 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

107.

- I)  $3x + y = 53$   
II)  $2x - 3y = 6$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

D.  $x < y$

E.  $x \leq y$

108.

I)  $4x^2 - x - 14 = 0$

II)  $5y^2 - 21 + 22 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

109.

I)  $2x^2 - 13x + 20 = 0$

II)  $4y^2 - 18y + 20 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

110.

I)  $x^2 - 4x - 117 = 0$

II)  $y^2 + y - 72 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

111.

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

II)  $y^2 - 5y + 6 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

112.

I)  $2x + 3y = 36$

II)  $5x - 2y = 14$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

113.

I)  $x^2 - 24x + 128 = 0$

II)  $y^2 - 15y + 54 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

114.

I)  $x^2 - 14x + 48 = 0$

II)  $y^2 - 7y + 12 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

- E.  $x \leq y$
115.  
I.  $x^2 - 23x + 90 = 0$   
II.  $y^2 + 2y - 24 = 0$   
A.  $x \geq y$   
B.  $x \leq y$   
C.  $x < y$   
D.  $x = y$  or the relation cannot be established.  
E.  $x > y$
116.  
I.  $11x^2 + 20x + 9 = 0$   
II.  $y^2 + 7y + 12 = 0$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x < y$   
D.  $x = y$  or the relation cannot be established.  
E.  $x \leq y$
117.  
I.  $x^2 + 3x - 40 = 0$   
II.  $y^2 - 17y + 60 = 0$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x \leq y$   
D.  $x = y$  or the relation cannot be established.  
E.  $x < y$
118.  
I.  $x^2 + 21x + 104 = 0$   
II.  $y^2 + 17y + 66 = 0$
- A.  $x > y$   
B.  $x \geq y$   
C.  $x < y$   
D.  $x = y$  or the relation cannot be established.  
E.  $x \leq y$
119.  
I.  $x^2 - 20x + 96 = 0$   
II.  $y^2 - 14y + 48 = 0$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x \leq y$   
D.  $x < y$   
E.  $x = y$  or the relation cannot be established.
120.  
I)  $x^2 + 28x + 192 = 0$   
II)  $y^2 + 19y + 84 = 0$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$
121.  
I)  $x^2 - x - 110 = 0$   
II)  $y^2 + 14y + 45 = 0$   
A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

122.

I)  $x^2 + 15x + 56 = 0$

II)  $y^2 - 20y + 91 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

123.

I)  $x^2 - 20x + 99 = 0$

II)  $y^2 = 81$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

124.

I)  $x^2 - 25x + 156 = 0$

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

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

125.

I).  $5x^2 - 26x + 33 = 0$

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

- A.  $x < y$
- B.  $x > y$

C.  $x \geq y$

D.  $x \leq y$

E. Relationship between  $x$  and  $y$  cannot be determined

126.

I).  $3x^2 - 8x + 4 = 0$

II).  $5y^2 - 18y + 16 = 0$

- A. Relationship between  $x$  and  $y$  cannot be determined
- B.  $x > y$
- C.  $x \leq y$
- D.  $x \geq y$
- E.  $x < y$

127.

I).  $x^2 - 13x + 42 = 0$

II).  $y^2 - 9y + 20 = 0$

- A.  $x < y$
- B.  $x > y$
- C.  $x \leq y$
- D.  $x \geq y$
- E. Relationship between  $x$  and  $y$  cannot be determined

128.

I).  $3x^2 - 23x + 40 = 0$

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

- A.  $x < y$
- B.  $x \leq y$
- C.  $x > y$
- D.  $x \geq y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

E. Relationship between  $x$  and  $y$  cannot be determined

129.

I).  $3x^2 + 14x + 8 = 0$

II).  $2y^2 - 17y + 36 = 0$

A. Relationship between  $x$  and  $y$  cannot be determined

B.  $x > y$

C.  $x \leq y$

D.  $x \geq y$

E.  $x < y$

130.

I).  $x^2 - 24x + 140 = 0$

II).  $y^2 - 44y + 420 = 0$

A.  $x < y$

B.  $x > y$

C.  $x = y$  or relationship can't be determined.

D.  $x \leq y$

E.  $x \geq y$

131.

I).  $x^2 - 81 = 0$

II).  $y^3 = 64$

A.  $x < y$

B.  $x \geq y$

C.  $x \leq y$

D.  $x = y$  or relationship can't be determined.

E.  $x > y$

132.

I).  $3x^2 - 40x + 112 = 0$

II).  $3y^2 + 58y + 280 = 0$

A.  $x \leq y$

B.  $x > y$

C.  $x < y$

D.  $x = y$  or relationship can't be determined.

E.  $x \geq y$

133.

I).  $8x + 11y = 14$

II).  $4x + 5y = 6$

A.  $x \geq y$

B.  $x > y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

134.

I).  $x^2 + 12x - 160 = 0$

II).  $y^2 - 21y + 110 = 0$

A.  $x \geq y$

B.  $x < y$

C.  $x > y$

D.  $x \leq y$

E.  $x = y$  or relationship can't be determined.

135.

I).  $x^2 - 30x + 224 = 0$

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

A.  $x = y$  or relationship can't be determined

B.  $x > y$

C.  $x \leq y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

D.  $x \geq y$

E.  $x < y$

136.

I).  $2x^2 + 9x - 243 = 0$

II).  $2y^2 - 57y + 405 = 0$

A.  $x < y$

B.  $x > y$

C.  $x = y$  or relationship can't be determined

D.  $x \geq y$

E.  $x \leq y$

137.

I).  $x^2 - 46x + 480 = 0$

II).  $y^2 + 12y - 64 = 0$

A.  $x < y$

B.  $x = y$  or relationship can't be determined.

C.  $x > y$

D.  $x \leq y$

E.  $x \geq y$

138.

I).  $x^2 = 49$

II).  $(y + 7)^2 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

139.

I).  $x^2 + 5x - 84 = 0$

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

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

140.

I).  $4x^2 + 5x + 1 = 0$

II).  $2y^2 + 5y + 3 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

141.

I).  $x^2 - 10x + 24 = 0$

II).  $3y^2 - 14y + 16 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

142.

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

II).  $3y^2 - 22y + 35 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

E.  $x \leq y$

143.

I).  $x^2 - 16x + 60 = 0$

II).  $y^2 - 22y + 121 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

144.

I).  $x^2 - 3x + 2 = 0$

II).  $10y^2 - 13y + 4 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

145.

I).  $x^2 - 45x + 500 = 0$

II).  $y^2 - 38y + 360 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

146.

I).  $x^2 - 20x + 100 = 0$

II).  $y^2 = 121$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

147.

I)  $x^2 - 11x + 30 = 0$

II)  $2y^2 - 13y + 20 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

148.

I)  $x^2 + 23x + 132 = 0$

II)  $y^2 + 11y + 28 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

149.

I)  $3x + y = 25$

II)  $2y + x = 25$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

150.

I)  $x^2 - 13x + 36 = 0$

II)  $2y^2 + y - 36 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

151.

I)  $x^2 + 16x + 63 = 0$

II)  $y^2 - 5y - 84 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

Directions (152-156): In each of the following questions, two equations are given. You have to solve both the equations to find the relation between  $x$  and  $y$ .

152.

I).  $5x^2 - 14x - 55 = 0$

II).  $4y^2 - 2y - 56 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

153.

I).  $10x - 7y + 16 = 0$

II).  $3x - 4y + 1 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

154.

I).  $x^2 - 30x + 81 = 0$

II).  $3y^2 - 9y + 6 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

155.

I).  $x^4 - 1356 = 1045$

II).  $y^3 + 183 = 526$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

156.

I).  $3x^2 - 25x + 52 = 0$

II).  $2y^2 - 23y + 65 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

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- D.  $x < y$   
E.  $x \leq y$

Directions (157-166): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

157.

I).  $x^2 - 16x + 63 = 0$

II).  $y^2 - 14y + 45 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

158.

I).  $x^2 + 29x + 120 = 0$

II).  $y^2 - 13y - 90 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

159.

I).  $x^4 = 4096$

II).  $y^2 + 17y + 72 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.

- D.  $x < y$   
E.  $x \leq y$

160.

I).  $5x^2 - 25x + 30 = 0$

II).  $y^2 - 11y + 30 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

161.

I).  $x^2 - x - 6 = 0$

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

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

162.

I).  $x^2 - 23x + 126 = 0$

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

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined.  
D.  $x < y$   
E.  $x \leq y$

163.

I).  $x^2 - 32x + 252 = 0$

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163. II).  $y^2 - 37y + 342 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

164.

I).  $x^2 - 14x + 48 = 0$

II).  $y^2 - 9y + 20 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

165.

I).  $x^2 - 5x - 24 = 0$

II).  $y^2 - 6y - 27 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

166.

I).  $x^2 + 18x + 80 = 0$

II).  $y^2 + 19y + 90 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$

E.  $x \leq y$

Directions (167-171): In each of the following questions, two equations are given. You have to solve both the equations to find the relation between  $x$  and  $y$ .

167.

I).  $x^2 - 26x + 88 = 0$

II).  $y^2 + 28y + 96 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined
- D.  $x < y$
- E.  $x \leq y$

168.

I).  $x^2 - 37x - 78 = 0$

II).  $y^2 + 43y + 82 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined
- D.  $x < y$
- E.  $x \leq y$

169.

I).  $x^2 + 2x - 120 = 0$

II).  $y^2 - 12y + 20 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined
- D.  $x < y$
- E.  $x \leq y$

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170.

I).  $x^2 + 27x + 182 = 0$

II).  $y^2 - 4y - 252 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

171.

I).  $x + y = 11$

II).  $4x + 3y = 39$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

Directions (172-175): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

172.

I)  $x^2 - 17x + 70 = 0$

II)  $y^2 - 20y + 91 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

173.

I)  $x^2 - 18x + 81 = 0$

II)  $y^2 - 12x + 32 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

174.

I)  $x^2 = 196$

II)  $y = \sqrt{196} - 4$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

175.

I)  $4x^2 - 17x + 18 = 0$

II)  $5y^2 - 19y + 18 = 0$

- A.  $x > y$   
B.  $x \geq y$   
C.  $x = y$  or relationship can't be determined  
D.  $x < y$   
E.  $x \leq y$

Directions (176-184): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

176.

I)  $x^2 + 4x - 5 = 0$

II)  $3y^2 - 8y + 5 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

177.

I)  $x^2 - 12x + 35 = 0$

II)  $y^2 - 6y + 8 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

178.

I)  $3x^2 + 10x + 8 = 0$

II)  $y^2 + 19y + 34 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

179.

I).  $x^2 - 34x + 288 = 0$

II).  $2y^2 - 51y + 280 = 0$

A.  $x \leq y$

B.  $x > y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \geq y$

180.

I).  $3x^2 - 41x + 136 = 0$

II).  $3y^2 + 5y - 68 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x \leq y$

D.  $x = y$  or relationship can't be determined.

E.  $x < y$

181.

I).  $2x^2 + 57x + 370 = 0$

II).  $2y^2 - 51y + 310 = 0$

A.  $x \leq y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x > y$

182.

I).  $x - \sqrt{256} = 0$

II).  $y^3 - 72 = 144$

A.  $x \geq y$

B.  $x > y$

C.  $x = y$  or relationship can't be determined

D.  $x < y$

E.  $x \leq y$

183.

**Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)**

I).  $6x + 9y = 27$

II).  $4x + 3y = 15$

A.  $x \leq y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x > y$

184.

I).  $x^2 + 19x - 330 = 0$

II).  $y^2 - 40y + 364 = 0$

A.  $x < y$

B.  $x \geq y$

C.  $x = y$  or the relationship between  $x$  and  $y$  cannot be determined

D.  $x > y$

E.  $x \leq y$

Directions (185-190): In each of the following questions are given. You have to solve both the questions are given. You have to solve both the equations to find the relation between  $x$  and  $y$ .

185.

I)  $5x^2 + 6x - 27 = 0$

II)  $y^2 - 19y + 60 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  (or) relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

186.

I)  $x^2 - 9x - 136 = 0$

II)  $y^2 + 23y + 120 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  (or) relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

187.

I)  $x^2 - 14x + 48 = 0$

II)  $2y^2 + 3y - 77 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  (or) relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

188.

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

II)  $y^2 + 17y + 60 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  (or) relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

189.

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

II)  $y^2 - 25y + 84 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  (or) relationship can't be determined.

## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

D.  $x < y$

E.  $x \leq y$

190.

I)  $x^2 + 21x + 80 = 0$

II)  $y^2 - 8y - 65 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  (or) relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

### ANSWER WITH EXPLANATION

1. Answer: C

From I,

$$x^2 - 24x + 135 = 0$$

$$x^2 - 9x - 15x + 135 = 0$$

$$x(x - 9) - 15(x - 9) = 0$$

$$(x - 9)(x - 15) = 0$$

$$x = 9, 15$$

From II,

$$y^2 - 45y + 450 = 0$$

$$y^2 - 15y - 30y + 450 = 0$$

$$y(y - 15) - 30(y - 15) = 0$$

$$(y - 15)(y - 30) = 0$$

$$y = 15, 30$$

Hence,  $x \leq y$

2. Answer: C

From I,

$$x^2 - 14x - 176 = 0$$

$$x^2 + 8x - 22x - 176 = 0$$

$$x(x + 8) - 22(x + 8) = 0$$

$$(x - 22)(x + 8) = 0$$

$$x = 22, -8$$

From II,

$$y^2 + 12y - 189 = 0$$

$$y^2 + 21y - 9y - 189 = 0$$

$$y(y + 21) - 9(y + 21) = 0$$

$$(y - 9)(y + 21) = 0$$

$$y = +9, -21$$

Hence,  $x = y$  or relationship can't be determined.

3. Answer: A

$$x^2 + 21x - 270 = 0$$

$$x^2 + 30x - 9x - 270 = 0$$

$$x(x + 30) - 9(x + 30) = 0$$

$$(x - 9)(x + 30) = 0$$

$$x = +9, -30$$

$$y^2 - 34y + 225 = 0$$

$$y^2 - 25y - 9y + 225 = 0$$

$$y(y - 25) - 9(y - 25) = 0$$

$$(y - 9)(y - 25) = 0$$

$$y = +9, +25$$

Hence,  $x \leq y$

4. Answer: D

$$6x + 5y = 8 \dots\dots(1)$$

$$3x + 2y = 3 \dots\dots(2)$$

$$(2) * 2 \Rightarrow 6x + 4y = 6 \dots\dots(3)$$

From (1) & (3)

## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

$$y = 2$$

$$y = 2 \text{ sub in (2)}$$

$$3x + 2(2) = 3$$

$$3x + 4 = 3$$

$$3x = 3 - 4$$

$$x = -1/3$$

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

**5. Answer: C**

**From I**

$$x^2 - 6x - 55 = 0$$

$$x^2 + 5x - 11x - 55 = 0$$

$$x(x + 5) - 11(x + 5) = 0$$

$$(x - 11)(x + 5) = 0$$

$$x = +11, -5$$

**From II**

$$y^2 - 26y + 165 = 0$$

$$y^2 - 15y - 11y + 165 = 0$$

$$y(y - 15) - 11(y - 15) = 0$$

$$(y - 11)(y - 15) = 0$$

$$y = +11, +15$$

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

**6. Answer: E**

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

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

$$x^2 - 7x + 12 = 0$$

$$x^2 - 4x - 3x + 12 = 0$$

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

$$x = 3, 4$$

$$y^2 - 11y + 28 = 0$$

$$y^2 - 7y - 4y + 28 = 0$$

$$y(y - 7) - 4(y - 7) = 0$$

$$y = 7, 4$$

$$x \leq y$$

**7. Answer: D**

$$x^2 - 4x - 60 = 0$$

$$x^2 - 10x + 6x - 60 = 0$$

$$x(x - 10) + 6(x - 10) = 0$$

$$x = -6, 10$$

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

$$y^2 - 12y - 13y + 156 = 0$$

$$y(y - 12) - 13(y - 12) = 0$$

$$y = 12, 13$$

$$x < y$$

**8. Answer: D**

$$y = \sqrt{256} + \sqrt{144} = 16 + 12 = 28$$

$$(x/28) - (x/35) = 1/7$$

$$(5x - 4x)/140 = 1/7$$

$$x = 20$$

$$x < y$$

**9. Answer: B**

$$x^3 = 2744$$

$$x = 14$$

$$y^2 - 196 = 0$$

$$y = 14, -14$$

$$x \geq y$$

Relationship can't be determined

**10. Answer: A**

$$x^2 - 28x + 192 = 0$$

$$x^2 - 16x - 12x + 192 = 0$$

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

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## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

$$x = 12, 16$$

$$y^2 - 21y + 110 = 0$$

$$y^2 - 11y - 10y + 110 = 0$$

$$y(y - 11) - 10(y - 11) = 0$$

$$y = 10, 11$$

$$x > y$$

**11. Answer: C**

$$4x^2 - 27x + 35 = 0$$

$$4x^2 - 20x - 7x + 35 = 0$$

$$4x(x - 5) - 7(x - 5) = 0$$

$$x = +5, +7/4$$

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

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

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

$$y = +3, +2$$

The relationship can't be determined

**12. Answer: B**

$$x^2 - 5x - 104 = 0$$

$$x^2 - 13x + 8x - 104 = 0$$

$$x(x - 13) + 8(x - 13) = 0$$

$$x = +13, -8$$

$$y^2 + 23y + 120 = 0$$

$$y^2 + 15y + 8y + 120 = 0$$

$$y(y + 15) + 8(y + 15) = 0$$

$$y = -15, -8$$

Hence,  $x \geq y$

**13. Answer: D**

$$3x^2 + x - 24 = 0$$

$$3x^2 + 9x - 8x - 24 = 0$$

$$3x(x + 3) - 8(x + 3) = 0$$

$$x = -3, +8/3$$

$$2y^2 - 25y + 78 = 0$$

$$2y^2 - 12y - 13y + 78 = 0$$

$$2y(y - 6) - 13(y - 6) = 0$$

$$y = +6, +13/2$$

Hence,  $x < y$

**14. Answer: A**

$$5x^2 + 17x + 14 = 0$$

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

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

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

$$y^2 + 11y + 24 = 0$$

$$y^2 + 3y + 8y + 24 = 0$$

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

$$y = -3, -9$$

Hence,  $x > y$

**15. Answer: E**

$$x^2 - 8x + 15 = 0$$

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

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

$$x = +5, +3$$

$$y^2 - 22y + 85 = 0$$

$$y^2 - 17y - 5y + 85 = 0$$

$$y(y - 17) - 5(y - 17) = 0$$

$$y = +17, +5$$

Hence,  $x \leq y$

**16. Answer: A**

$$2x^2 - 17x + 36 = 0$$

$$2x^2 - 8x - 9x + 36 = 0$$

$$2x(x - 4) - 9(x - 4) = 0$$

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## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

$$x = +4, +9/2$$

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

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

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

$$y = +3, +3$$

$$x > y$$

**17. Answer: D**

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

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

$$4x(x + 6/4) + 6(x + 6/4) = 0$$

$$x = -3/2, -3/2$$

$$3y^2 + 7y + 4 = 0$$

$$3y^2 + 3y + 4y + 4 = 0$$

$$3y(y + 1) + 4(y + 1) = 0$$

$$y = -1, -4/3$$

$$x < y$$

**18. Answer: A**

$$x^2 + 13x + 42 = 0$$

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

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

$$x = -6, -7$$

$$y^2 + 23y + 132 = 0$$

$$y^2 + 12y + 11y + 132 = 0$$

$$y(y + 12) + 11(y + 12) = 0$$

$$y = -11, -12$$

$$x > y$$

**19. Answer: C**

$$3x^2 - 13x + 14 = 0$$

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

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

$$x = +2, +7/3$$

$$5y^2 - 16y + 11 = 0$$

$$5y^2 - 5y - 11y + 11 = 0$$

$$5y(y - 1) - 11(y - 1) = 0$$

$$y = +11/5, +1$$

Relationship can't be determined

**20. Answer: E**

$$x^2 - x - 110 = 0$$

$$x^2 - 11x + 10x - 110 = 0$$

$$x(x - 11) + 10(x - 11) = 0$$

$$x = +11, -10$$

$$y^3 = 1331$$

$$y = +11$$

$$x \leq y$$

**21. Answer: D**

$$x^2 + 13x + 36 = 0$$

$$x^2 + 9x + 4x + 36 = 0$$

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

$$x = -9, -4$$

$$y^2 - 3y - 28 = 0$$

$$y^2 - 7y + 4y - 28 = 0$$

$$y(y - 7) + 4(y - 7) = 0$$

$$y = +7, -4$$

Hence,  $x \leq y$

**22. Answer: A**

$$x^2 - 15x + 56 = 0$$

$$x^2 - 8x - 7x + 56 = 0$$

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

$$x = +8, +7$$

$$y^2 - 11y + 30 = 0$$

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## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

$$y^2 - 6y - 5y + 30 = 0$$

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

$$y = + 6, + 5$$

Hence,  $x > y$

**23. Answer: C**

$$x^2 - 18x + 80 = 0$$

$$x^2 - 10x - 8x + 80 = 0$$

$$x(x - 10) - 8(x - 10) = 0$$

$$x = + 10, + 8$$

$$y^2 + 41 = 105$$

$$y^2 = 64$$

$$y = \pm 8$$

Hence,  $x \geq y$

**24. Answer: E**

$$3x^2 - 5x - 22 = 0$$

$$3x^2 + 6x - 11x - 22 = 0$$

$$3x(x + 2) - 11(x + 2) = 0$$

$$x = - 2, + 11/3$$

$$x = - 2, + 3.67$$

$$y^2 + 3y - 40 = 0$$

$$y^2 + 8y - 5y - 40 = 0$$

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

$$y = - 8, + 5$$

The relationship can't be determined

**25. Answer: A**

$$2x^2 + 9x + 10 = 0$$

$$2x^2 + 4x + 5x + 10 = 0$$

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

$$x = - 2, - 5/2$$

$$x = - 2, - 2.5$$

$$y^2 + 8y + 15 = 0$$

$$y^2 + 5y + 3y + 15 = 0$$

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

$$y = - 5, - 3$$

Hence,  $x > y$

**26. Answer: C**

$$x^2 + 7x - 120 = 0$$

$$x^2 + 15x - 8x - 120 = 0$$

$$x(x + 15) - 8(x + 15) = 0$$

$$x = - 15, + 8$$

$$y^2 - 2y - 63 = 0$$

$$y^2 - 9y + 7y - 63 = 0$$

$$y(y - 9) + 7(y - 9) = 0$$

$$y = + 9, - 7$$

The relationship can't be determined

**27. Answer: D**

$$5x + 2y = 32 \text{ ---(1)}$$

$$5y + x = 34 \text{ ---(2)}$$

From (1) and (2),

$$5x + 2y = 32$$

$$- 5x - 25y = - 170$$

$$23y = 138$$

$$y = 6$$

$$x = 34 - 5 * 6$$

$$x = 4$$

$$x < y$$

**28. Answer: A**

$$3x^2 + 19x + 30 = 0$$

$$3x^2 + 9x + 10x + 30 = 0$$

$$3x(x + 3) + 10(x + 3) = 0$$

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## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

$$x = -3, -10/3$$

$$x = -3, -3.33$$

$$y^2 + 13y + 40 = 0$$

$$y^2 + 8y + 5y + 40 = 0$$

$$y(y + 8) + 5(y + 8) = 0$$

$$y = -8, -5$$

Hence,  $x > y$

**29. Answer: E**

$$x^2 - 10x + 24 = 0$$

$$x^2 - 6x - 4x + 24 = 0$$

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

$$x = +6, +4$$

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

$$y^2 - 8y - 6y + 48 = 0$$

$$y(y - 8) - 6(y - 8) = 0$$

$$y = +8, +6$$

Hence,  $x \leq y$

**30. Answer: B**

$$2x^2 - 9x + 10 = 0$$

$$2x^2 - 4x - 5x + 10 = 0$$

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

$$x = +2, +5/2$$

$$x = +2, +2.5$$

$$3y^2 - 2y - 8 = 0$$

$$3y^2 - 6y + 4y - 8 = 0$$

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

$$y = +2, -4/3$$

$$y = +2, -1.33$$

Hence,  $x \geq y$

**31. Answer: A**

$$x^2 - 30x + 221 = 0$$

$$x^2 - 13x - 17x + 221 = 0$$

$$x(x - 13) - 17(x - 13) = 0$$

$$(x - 17)(x - 13) = 0$$

$$x = 17, 13$$

$$y^2 - 23y + 132 = 0$$

$$y^2 - 11y - 12y + 132 = 0$$

$$y(y - 11) - 12(y - 11) = 0$$

$$(y - 12)(y - 11) = 0$$

$$y = 12, 11$$

$x > y$

**32. Answer: B**

$$x^2 - 20x + 100 = 0$$

$$x^2 - 10x - 10x + 100 = 0$$

$$x(x - 10) - 10(x - 10) = 0$$

$$(x - 10)(x - 10) = 0$$

$$x = 10, 10$$

$$y^2 + 5y - 150 = 0$$

$$y^2 + 15y - 10y - 150 = 0$$

$$y(y + 15) - 10(y + 15) = 0$$

$$(y - 10)(y + 15) = 0$$

$$y = 10, -15$$

$x \geq y$

**33. Answer: E**

$$x^2 + 30x + 221 = 0$$

$$x^2 + 17x + 13x + 221 = 0$$

$$x(x + 17) + 13(x + 17) = 0$$

$$x = -17, -13$$

$$y^2 + 25y + 156 = 0$$

$$y^2 + 12y + 13y + 156 = 0$$

$$y(y + 12) + 13(y + 12) = 0$$

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$$y = -12, -13$$

$$x \leq y$$

**34. Answer: C**

$$2x^2 - 32x + 126 = 0$$

$$2x^2 - 14x - 18x + 126 = 0$$

$$2x(x - 7) - 18(x - 7) = 0$$

$$x = 9, 7$$

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

$$y^2 - 11y - 8y + 88 = 0$$

$$y(y - 11) - 8(y - 11) = 0$$

$$y = 8, 11$$

Relationship between  $x$  and  $y$  cannot be established.

**35. Answer: B**

$$x^2 - 16x + 60 = 0$$

$$x^2 - 10x - 6x + 60 = 0$$

$$x(x - 10) - 6(x - 10) = 0$$

$$x = 6, 10$$

$$y^2 - 11y + 30 = 0$$

$$y^2 - 5y - 6y + 30 = 0$$

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

$$y = 5, 6$$

$$x \geq y$$

**36. Answer: B**

$$x^2 + 11x + 30 = 0$$

$$x^2 + 6x + 5x + 30 = 0$$

$$x(x+6) + 5(x+6) = 0$$

$$(x+5)(x+6) = 0$$

$$x = -5, -6$$

$$y^2 + 16y + 63 = 0$$

$$y^2 + 9y + 7y + 63 = 0$$

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

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

$$y = -9, -7$$

Hence,  $x > y$

**37. Answer: C**

$$x^2 - 5x - 24 = 0$$

$$x^2 - 8x + 3x - 24 = 0$$

$$x(x-8) + 3(x-8) = 0$$

$$(x-8)(x+3) = 0$$

$$x = +8, -3$$

$$y^2 - 17y + 72 = 0$$

$$y^2 - 9y - 8y + 72 = 0$$

$$y(y-9) - 8(y-9) = 0$$

$$(y-9)(y-8) = 0$$

$$y = 9, 8$$

Hence,  $x \leq y$

**38. Answer: E**

$$2x^2 - 11x + 14 = 0$$

$$2x^2 - 4x - 7x + 14 = 0$$

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

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

$$x = +2, +7/2$$

$$y^2 - 7y + 12 = 0$$

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

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

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

$$y = 4, 3$$

Hence, Relationship between  $x$  and  $y$  cannot be determined

**39. Answer: A**

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$$3x^2 + 13x + 12 = 0$$

$$\Rightarrow 3x^2 + 9x + 4x + 12 = 0$$

$$\Rightarrow 3x(x+3) + 4(x+3) = 0$$

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

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

$$3y^2 - 14y + 16 = 0$$

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

$$\Rightarrow 3y(y-2) - 8(y-2) = 0$$

$$\Rightarrow (y-2)(3y-8) = 0$$

$$\Rightarrow y = 2, 8/3$$

Hence,  $x < y$

**40. Answer: A**

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

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

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

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

$$x = 2, -7$$

$$2y^2 - 19y + 42 = 0$$

$$2y^2 - 12y - 7y + 42 = 0$$

$$2y(y-6) - 7(y-6) = 0$$

$$(y-6)(2y-7) = 0$$

$$y = 6, 7/2$$

Hence,  $x < y$

**41. Answer: C**

$$x^2 - 15x + 54 = 0$$

$$x^2 - 6x - 9x + 54 = 0$$

$$x(x-6) - 9(x-6) = 0$$

$$x = 6, 9$$

$$y^2 - 4y - 117 = 0$$

$$y^2 - 13y + 9y - 117 = 0$$

$$y(y-13) + 9(y-13) = 0$$

$$y = 13, -9$$

Relationship between  $x$  and  $y$  cannot be established.

**42. Answer: B**

$$x^2 - 5x - 204 = 0$$

$$x^2 - 17x + 12x - 204 = 0$$

$$x(x-17) + 12(x-17) = 0$$

$$x = 17, -12$$

$$y^2 + 27y + 180 = 0$$

$$y^2 + 12y + 15y + 180 = 0$$

$$y(y+12) + 15(y+12) = 0$$

$$y = -12, -15$$

$$x \geq y$$

**43. Answer: E**

$$x^2 + 2x - 99 = 0$$

$$x^2 + 11x - 9x - 99 = 0$$

$$x(x+11) - 9(x+11) = 0$$

$$x = 9, -11$$

$$y^2 - 19y + 90 = 0$$

$$y^2 - 9y - 10y + 90 = 0$$

$$y(y-9) - 10(y-9) = 0$$

$$y = 9, 10$$

$$x \leq y$$

**44. Answer: A**

$$x^2 + x - 182 = 0$$

$$x^2 + 14x - 13x - 182 = 0$$

$$x(x+14) - 13(x+14) = 0$$

$$x = 13, -14$$

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

$$y^2 + 16y + 15y + 240 = 0$$

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$$y(y + 16) + 15(y + 16) = 0$$

$$y = -16, -15$$

$$x > y$$

**45. Answer: E**

$$2x^2 - 13x + 20 = 0$$

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

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

$$x = 2.5, 4$$

$$y^2 - 17y + 52 = 0$$

$$y^2 - 13y - 4y + 52 = 0$$

$$y(y - 13) - 4(y - 13) = 0$$

$$y = 13, 4$$

$$x \leq y$$

**46. Answer: A**

$$x^2 - 40x + 384 = 0$$

$$x^2 - 24x - 16x + 384 = 0$$

$$x(x - 24) - 16(x - 24) = 0$$

$$x = 24, 16$$

$$y^2 - 26y = -168$$

$$y^2 - 14y - 12y + 168 = 0$$

$$y(y - 14) - 12(y - 14) = 0$$

$$y = 14, 12$$

$$x > y$$

**47. Answer: C**

$$x^2 = 25$$

$$x = 5, -5$$

$$y^4 = 625$$

$$y = -5, 5$$

Relationship between  $x$  and  $y$  cannot be established.

**48. Answer: E**

$$2x^2 - 8x + 6 = 0$$

$$x^2 - 4x + 3 = 0$$

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

$$x(x - 3) - 1(x - 3) = 0$$

$$x = 1, 3$$

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

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

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

$$y = 3, 3$$

$$x \leq y$$

**49. Answer: D**

$$6x^2 - 13x + 6 = 0$$

$$6x^2 - 4x - 9x + 6 = 0$$

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

$$x = 3/2, 2/3$$

$$y^2 - 9y + 18 = 0$$

$$y^2 - 6y - 3y + 18 = 0$$

$$y(y - 6) - 3(y - 6) = 0$$

$$y = 6, 3$$

$$x < y$$

**50. Answer: C**

$$x^2 - 16x - 36 = 0$$

$$x^2 - 18x + 2x - 36 = 0$$

$$x(x - 18) + 2(x - 18) = 0$$

$$x = 18, -2$$

$$y^2 - 12y - 45 = 0$$

$$y^2 - 15y + 3y - 45 = 0$$

$$y(y - 15) + 3(y - 15) = 0$$

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$$y = 15, -3$$

Relationship between  $x$  and  $y$  cannot be established.

**51. Answer: D**

$$5x^2 + 12x + 7 = 0$$

$$5x^2 + 5x + 7x + 7 = 0$$

$$5x(x + 1) + 7(x + 1) = 0$$

$$X = -1, -7/5$$

$$5y^2 - 11y + 6 = 0$$

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

$$5y(y - 1) - 6(y - 1) = 0$$

$$y = 1, 6/5$$

$$x < y$$

**52. Answer: E**

$$x^2 + 14x + 33 = 0$$

$$x^2 + 11x + 3x + 33 = 0$$

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

$$x = -11, -3$$

$$y^2 - 7x - 30 = 0$$

$$y^2 - 10x + 3x - 30 = 0$$

$$y(y - 10) + 3(x - 10) = 0$$

$$y = 10, -3$$

$$x \leq y$$

**53. Answer: D**

$$x^2 - 5x - 14 = 0$$

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

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

$$x = 7, -2$$

$$y^2 - 16y + 64 = 0$$

$$y^2 - 8y - 8y + 64 = 0$$

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

$$y = 8, 8$$

$$x < y$$

**54. Answer: C**

$$x^2 + x - 12 = 0$$

$$x^2 + 4x - 3x - 12 = 0$$

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

$$x = 3, -4$$

$$y^2 + 2y - 15 = 0$$

$$y^2 + 5y - 3y - 15 = 0$$

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

$$y = 3, -5$$

Relationship between  $x$  and  $y$  cannot be established.

**55. Answer: B**

$$x^2 - 9x + 20 = 0$$

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

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

$$x = 4, 5$$

$$y^2 - 7y + 12 = 0$$

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

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

$$y = 4, 3$$

$$x \geq y$$

**56. Answer: D**

$$x^2 + 9x + 20 = 0$$

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

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

$$x = -4, -5$$

$$8y^2 - 15y + 7 = 0$$

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$$8y^2 - 7y - 8y + 7 = 0$$

$$8y(y - 1) - 7(y - 1) = 0$$

$$y = 1, 7/8$$

$$x < y$$

**57. Answer: A**

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

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

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

$$x = 5, 2$$

$$y^2 + 8y + 15 = 0$$

$$y^2 + 5y + 3y + 15 = 0$$

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

$$y = -3, -5$$

$$x > y$$

**58. Answer: E**

$$x^2 - 5x + 6 = 0$$

$$x^2 - 2x - 3x + 6 = 0$$

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

$$x = 2, 3$$

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

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

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

$$y = 9, 3$$

$$x \leq y$$

**59. Answer: E**

$$x^2 = 16$$

$$x = 4, -4$$

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

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

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

$$y = 4, 4$$

$$x \leq y$$

**60. Answer: C**

$$3x^2 - 18x + 24 = 0$$

$$3x^2 - 12x - 6x + 24 = 0$$

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

$$x = 4, 2$$

$$y^2 - 9y + 18 = 0$$

$$y^2 - 6y - 3y + 18 = 0$$

$$y(y - 6) - 3(y - 6) = 0$$

$$y = 6, 3$$

Relationship between  $x$  and  $y$  cannot be established.

**61. Answer: B**

$$x^2 - 27x + 180 = 0$$

$$x^2 - 12x - 15x + 180 = 0$$

$$x(x - 12) - 15(x - 12) = 0$$

$$x = 12, 15$$

$$y^2 - 23y + 132 = 0$$

$$y^2 - 12y - 11y + 132 = 0$$

$$y(y - 12) - 11(y - 12) = 0$$

$$y = 12, 11$$

$$x \geq y$$

**62. Answer: D**

$$x^2 - 32x + 192 = 0$$

$$x^2 - 24x - 8x + 192 = 0$$

$$x(x - 24) - 8(x - 24) = 0$$

$$x = 24, 8$$

$$y^2 - 50y + 625 = 0$$

$$y^2 - 25y - 25y + 625 = 0$$

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$$y(y - 25) - 25(y - 25) = 0$$

$$y = 25, 25$$

$$x < y$$

**63. Answer: A**

$$x^3 = -343$$

$$x = -7$$

$$y^2 + 17y + 72 = 0$$

$$y^2 + 8y + 9y + 72 = 0$$

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

$$y = -8, -9$$

$$x > y$$

**64. Answer: D**

$$x^2 + 9x - 190 = 0$$

$$x^2 + 19x - 10x - 190 = 0$$

$$x(x + 19) - 10(x + 19) = 0$$

$$x = -19, +10$$

$$y^2 - 24y + 143 = 0$$

$$y^2 - 11y - 13y + 143 = 0$$

$$y(y - 11) - 13(y - 11) = 0$$

$$y = +11, +13$$

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

**65. Answer: E**

$$3x^2 + 14x + 16 = 0$$

$$3x^2 + 6x + 8x + 16 = 0$$

$$3x(x + 2) + 8(x + 2) = 0$$

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

$$4y^2 + 13y + 10 = 0$$

$$4y^2 + 8y + 5y + 10 = 0$$

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

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

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

**66. Answer: B**

$$x^2 - 3x - 54 = 0$$

$$x^2 - 9x + 6x - 54 = 0$$

$$x(x - 9) + 6(x - 9) = 0$$

$$x = +9, -6$$

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

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

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

$$y = -6, -7$$

$$\text{Hence, } x \geq y$$

**67. Answer: A**

$$x^2 - 19x + 78 = 0$$

$$x^2 - 13x - 6x + 78 = 0$$

$$x(x - 13) - 6(x - 13) = 0$$

$$x = +13, +6$$

$$y^2 + 9y - 70 = 0$$

$$y^2 + 14y - 5y - 70 = 0$$

$$y(y + 14) - 5(y + 14) = 0$$

$$y = -14, +5$$

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

**68. Answer: C**

$$x^2 - 10x + 24 = 0$$

$$x^2 - 4x - 6x + 24 = 0$$

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

$$x = +4, +6$$

$$y^2 - 18y + 45 = 0$$

$$y^2 - 3y - 15y + 45 = 0$$

$$y(y - 3) - 15(y - 3) = 0$$

$$y = +3, +15$$

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The relationship can't be determined.

**69. Answer: B**

$$3x^2 - 16x + 20 = 0$$

$$3x^2 - 10x - 6x + 20 = 0$$

$$x(3x - 10) - 2(3x - 10) = 0$$

$$x = 2, 10/3$$

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

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

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

$$y = 2, -5$$

$$x \geq y$$

**70. Answer: C**

$$x^2 - 19x + 84 = 0$$

$$x^2 - 12x - 7x + 84 = 0$$

$$x(x - 12) - 7(x - 12) = 0$$

$$x = 7, 12$$

$$y^2 - 21y + 110 = 0$$

$$y^2 - 11y - 10y + 110 = 0$$

$$y(y - 11) - 10(y - 11) = 0$$

$$y = 11, 10$$

Relationship can't be determined

**71. Answer: E**

$$5x^2 - 19x + 18 = 0$$

$$5x^2 - 10x - 9x + 18 = 0$$

$$5x(x - 2) - 9(x - 2) = 0$$

$$x = 9/5, 2$$

$$y^2 - 8y + 12 = 0$$

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

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

$$y = 6, 2$$

$$x \leq y$$

**72. Answer: A**

$$x^2 - 31x + 228 = 0$$

$$x^2 - 12x - 19x + 228 = 0$$

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

$$x = 12, 19$$

$$y^2 - 15y + 56 = 0$$

$$y^2 - 8y - 7y + 56 = 0$$

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

$$y = 8, 7$$

$$x > y$$

**73. Answer: D**

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

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

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

$$x = -8, -4$$

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

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

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

$$y = -2, -3$$

**74. Answer: C**

$$x^2 + 15x + 56 = 0$$

$$x^2 + 7x + 8x + 56 = 0$$

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

$$x = -7, -8$$

$$y^2 + 20y + 91 = 0$$

$$y^2 + 13y + 7y + 91 = 0$$

$$y(y + 13) + 7(y + 13) = 0$$

$$y = -13, -7$$

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Relationship between  $x$  and  $y$  cannot be determined.

**75. Answer: A**

$$3x^2 - 36x = 0$$

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

$$x = 12, 0$$

$$y^2 + 14y + 33 = 0$$

$$y^2 + 11y + 3y + 33 = 0$$

$$y(y + 11) + 3(y + 11) = 0$$

$$y = -11, -3$$

$$x > y$$

**76. Answer: D**

$$x + 3y = 15 \text{ -----(1)}$$

$$2x + y = 10 \text{ -----(2)}$$

From (1) and (2)

$$5y = 20$$

$$y = 4$$

$$x = 15 - 12 = 3$$

$$x < y$$

**77. Answer: B**

$$x^2 - 29x + 168 = 0$$

$$x^2 - 8x - 21x + 168 = 0$$

$$x(x - 8) - 21(x - 8) = 0$$

$$x = 8, 21$$

$$y^2 + 10y - 144 = 0$$

$$y^2 + 18y - 8y - 144 = 0$$

$$y(y + 18) - 8(y + 18) = 0$$

$$y = 8, -18$$

$$x \geq y$$

**78. Answer: C**

$$x^2 - 38x + 352 = 0$$

$$x^2 - 22x - 16x + 352 = 0$$

$$x(x - 22) - 16(x - 22) = 0$$

$$x = 16, 22$$

$$y^2 - 41y + 418 = 0$$

$$y^2 - 22y - 19y + 418 = 0$$

$$y(y - 22) - 19(y - 22) = 0$$

$$y = 19, 22$$

Relationship between  $x$  and  $y$  cannot be established.

**79. Answer: B**

$$x^2 - 28x + 192 = 0$$

$$x^2 - 16x - 12x + 192 = 0$$

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

$$x = 16, 12$$

$$y^2 - 20y + 96 = 0$$

$$y^2 - 12y - 8y + 96 = 0$$

$$y(y - 12) - 8(y - 12) = 0$$

$$y = 12, 8$$

$$x \geq y$$

**80. Answer: E**

$$x^2 + 9x - 52 = 0$$

$$x^2 + 13x - 4x - 52 = 0$$

$$x(x + 13) - 4(x + 13) = 0$$

$$x = -13, 4$$

$$y^2 - 14y + 40 = 0$$

$$y^2 - 10y - 4y + 40 = 0$$

$$y(y - 10) - 4(y - 10) = 0$$

$$y = 10, 4$$

$$x \leq y$$

**81. Answer: E**

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$$x^2 - 5x - 300 = 0$$

$$x^2 - 20x + 15x - 300 = 0$$

$$x(x - 20) + 15(x - 20) = 0$$

$$x = + 20, - 15$$

$$y^2 + 27y + 180 = 0$$

$$y^2 + 15y + 12y + 180 = 0$$

$$y(y + 15) + 12(y + 15) = 0$$

$$y = - 15, - 12$$

The relationship can't be determined

**82. Answer: A**

$$x^2 + 13x + 42 = 0$$

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

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

$$x = - 7, - 6$$

$$y^2 + 18y + 80 = 0$$

$$y^2 + 10y + 8y + 80 = 0$$

$$y(y + 10) + 8(y + 10) = 0$$

$$y = - 10, - 8$$

Hence,  $x > y$

**83. Answer: D**

$$x^2 + 4x - 45 = 0$$

$$x^2 + 9x - 5x - 45 = 0$$

$$x(x + 9) - 5(x + 9) = 0$$

$$x = - 9, + 5$$

$$y^2 - 17y + 60 = 0$$

$$y^2 - 12y - 5y + 60 = 0$$

$$y(y - 12) - 5(y - 12) = 0$$

$$y = + 12, + 5$$

Hence,  $x \leq y$

**84. Answer: C**

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

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

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

$$x = 4, 8$$

$$y^2 - 13y + 36 = 0$$

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

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

$$y = 9, 4$$

Relationship between  $x$  and  $y$  can't be determined

**85. Answer: A**

$$4x^2 - 16x + 15 = 0$$

$$4x^2 - 10x - 6x + 15 = 0$$

$$4x(x - 10/4) - 6(x - 10/4) = 0$$

$$x = 10/4, 6/4 = 2.5, 1.5$$

$$y^2 + y - 2 = 0$$

$$y^2 + 2y - y - 2 = 0$$

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

$$y = 1, -2$$

$x > y$

**86. Answer: B**

$$x^2 - 14x + 45 = 0$$

$$x^2 - 9x - 5x + 45 = 0$$

$$x(x - 9) - 5(x - 9) = 0$$

$$x = 9, 5$$

$$y^2 + 3y - 40 = 0$$

$$y^2 + 8y - 5y - 40 = 0$$

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

$$y = 5, -8$$

$x \geq y$

**87. Answer: E**

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$$x^2 - 19x + 88 = 0$$

$$x^2 - 11x - 8x + 88 = 0$$

$$x(x - 11) - 8(x - 11) = 0$$

$$x = 11, 8$$

$$y^2 - 23y + 132 = 0$$

$$y^2 - 12y - 11y + 132 = 0$$

$$y(y - 12) - 11(y - 12) = 0$$

$$y = 12, 11$$

$$x \leq y$$

**88. Answer: A**

$$x^2 + 10x + 9 = 0$$

$$x^2 + x + 9x + 9 = 0$$

$$x(x + 1) + 9(x + 1) = 0$$

$$x = -1, -9$$

$$y^2 + 24y + 140 = 0$$

$$y^2 + 14y + 10y + 140 = 0$$

$$y(y + 14) + 10(y + 14) = 0$$

$$y = -14, -10$$

$$x > y$$

**89. Answer: C**

$$x^2 - 7x - 368 = 0$$

$$x^2 - 23x + 16x - 368 = 0$$

$$x(x - 23) + 16(x - 23) = 0$$

$$x = 23, -16$$

$$y^2 + 2y - 575 = 0$$

$$y^2 + 25y - 23y - 575 = 0$$

$$y(y + 25) - 23(y + 25) = 0$$

$$y = 23, -25$$

Relationship between  $x$  and  $y$  cannot be established.

**90. Answer: E**

$$x^2 + 26x - 120 = 0$$

$$x^2 + 30x - 4x - 120 = 0$$

$$x(x + 30) - 4(x + 30) = 0$$

$$x = 4, -30$$

$$y^2 - 26y + 88 = 0$$

$$y^2 - 22y - 4y + 88 = 0$$

$$y(y - 22) - 4(y - 22) = 0$$

$$y = 22, 4$$

$$x \leq y$$

**91. Answer: C**

$$x^2 + 35x + 306 = 0$$

$$x^2 + 17x + 18x + 306 = 0$$

$$x(x + 17) + 18(x + 17) = 0$$

$$x = -17, -18$$

$$y^2 + 40y + 391 = 0$$

$$y^2 + 23y + 17y + 391 = 0$$

$$y(y + 23) + 17(y + 23) = 0$$

$$y = -23, -17$$

Relationship between  $x$  and  $y$  cannot be determined.

**92. Answer: B**

$$x^2 - 32x + 252 = 0$$

$$x^2 - 14x - 18x + 252 = 0$$

$$x(x - 14) - 18(x - 14) = 0$$

$$x = 14, 18$$

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

$$y^2 - 14y - 6y + 84 = 0$$

$$y(y - 14) - 6(y - 14) = 0$$

$$y = 14, 6$$

$$x \geq y$$

**93. Answer: D**

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$$2x + 3y = 73 \text{ -----(1)}$$

$$x + 3y = 59 \text{ -----(2)}$$

$$x = 14$$

$$y = 73 - 28/3 = 15$$

$$x < y$$

**94. Answer: E**

I).  $x^2 = 196$

$$\Rightarrow x = +14, -14$$

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

$$\Rightarrow y^2 + 8y - 6y - 48 = 0$$

$$\Rightarrow y(y + 8) - 6(y + 8) = 0$$

$$\Rightarrow (y - 6)(y + 8) = 0$$

$$\Rightarrow y = 6, -8$$

Hence, relationship between x and y cannot be determined

**95. Answer: B**

I).  $x^3 = 6859 \Rightarrow x = 19$

II).  $y^3 = 3375 \Rightarrow y = 15$

Hence,  $x > y$

**96. Answer: E**

I).  $2x^2 + 19x + 42 = 0$

$$\Rightarrow 2x^2 + 12x + 7x + 42 = 0$$

$$\Rightarrow 2x(x + 6) + 7(x + 6) = 0$$

$$\Rightarrow (2x + 7)(x + 6) = 0$$

$$\Rightarrow x = -7/2, -6$$

II).  $4y^2 + 43y + 30 = 0$

$$\Rightarrow 4y^2 + 40y + 3y + 30 = 0$$

$$\Rightarrow 4y(y + 10) + 3(y + 10) = 0$$

$$\Rightarrow (4y + 3)(y + 10) = 0$$

$$\Rightarrow y = -3/4, -10$$

Hence, relationship between x and y cannot be determined

**97. Answer: D**

I).  $72 - 30x = -2x^2$

$$\Rightarrow 2x^2 - 30x + 72 = 0$$

$$\Rightarrow x^2 - 15x + 36 = 0$$

$$\Rightarrow x = 3, 12$$

II).  $y^2 - 40/6 = 7/3$

$$\Rightarrow y^2 - 20/3 = 7/3$$

$$\Rightarrow y^2 = 27/3$$

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

Hence,  $x \geq y$

**98. Answer: C**

I).  $2x^2 - x - 1 = 0$

$$\Rightarrow 2x^2 - 2x + x - 1 = 0$$

$$\Rightarrow 2x(x - 1) + 1(x - 1) = 0$$

$$\Rightarrow (2x + 1)(x - 1) = 0$$

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

II).  $2y^2 - 4y + 2 = 0$

$$\Rightarrow 2y^2 - 2y - 2y + 2 = 0$$

$$\Rightarrow 2y(y - 1) - 2(y - 1) = 0$$

$$\Rightarrow (2y - 2)(y - 1) = 0$$

$$\Rightarrow y = 1, 1$$

Hence,  $x \leq y$

**99. Answer: E**

$$x^2 + 5x - 126 = 0$$

$$x^2 + 14x - 9x - 126 = 0$$

$$x(x + 14) - 9(x + 14) = 0$$

$$x = -14, +9$$

$$y^2 - 22y + 117 = 0$$

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$$y^2 - 13y - 9y + 117 = 0$$

$$y(y - 13) - 9(y - 13) = 0$$

$$y = +13, +9$$

Hence,  $x \leq y$

**100. Answer: D**

$$3x^2 - 5x - 12 = 0$$

$$3x^2 - 9x + 4x - 12 = 0$$

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

$$x = +3, -4/3$$

$$x = +3, -1.33$$

$$2y^2 - 21y + 54 = 0$$

$$2y^2 - 12y - 9y + 54 = 0$$

$$2y(y - 6) - 9(y - 6) = 0$$

$$y = +6, +9/2$$

$$y = +6, +4.5$$

Hence,  $x < y$

**101. Answer: C**

$$x^2 - 22x + 105 = 0$$

$$x^2 - 15x - 7x + 105 = 0$$

$$x(x - 15) - 7(x - 15) = 0$$

$$x = 15, 7$$

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

$$y^2 - 16y - 8y + 128 = 0$$

$$y(y - 16) - 8(y - 16) = 0$$

$$y = 8, 16$$

Relationship between  $x$  and  $y$  can't be determined

**102. Answer: D**

$$2x^2 - 28x + 96 = 0$$

$$\div 2,$$

$$x^2 - 14x + 48 = 0$$

$$x^2 - 8x - 6x + 48 = 0$$

$$x(x - 8) - 6(x - 8) = 0$$

$$x = 6, 8$$

$$y^2 - 22y + 120 = 0$$

$$y^2 - 10y - 12y + 120 = 0$$

$$y(y - 10) - 12(y - 10) = 0$$

$$y = 10, 12$$

$$x < y$$

**103. Answer: C**

$$x^2 - x - 20 = 0$$

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

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

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

$$x = -4, 5$$

$$y^2 - 9y - 22 = 0$$

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

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

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

$$y = -2, 11$$

Relationship between  $x$  and  $y$  cannot be established.

**104. Answer: B**

$$2x^2 - 9x + 10 = 0$$

$$2x^2 - 4x - 5x + 10 = 0$$

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

$$x = +2, +5/2$$

$$x = +2, +2.5$$

$$3y^2 + 4y - 20 = 0$$

$$3y^2 - 6y + 10y - 20 = 0$$

$$3y(y - 2) + 10(y - 2) = 0$$

$$y = +2, -10/3$$

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$$y = +2, -3.3$$

Hence,  $x \geq y$

**105. Answer: D**

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

$$x^2 + 8x + 5x + 40 = 0$$

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

$$x = -8, -5$$

$$y^2 - 21y + 108 = 0$$

$$y^2 - 12y - 9y + 108 = 0$$

$$y(y - 12) - 9(y - 12) = 0$$

$$y = +12, +9$$

Hence,  $x < y$

**106. Answer: C**

$$x^2 - 2x - 63 = 0$$

$$x^2 - 9x + 7x - 63 = 0$$

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

$$x = +9, -7$$

$$y^2 + y - 132 = 0$$

$$y^2 - 11y + 12y - 132 = 0$$

$$y(y - 11) + 12(y - 11) = 0$$

$$y = +11, -12$$

The relationship between  $x$  and  $y$  can't be determined

**107. Answer: A**

$$3x + y = 53 \text{ ---(1)}$$

$$2x - 3y = 6 \text{ ---(2)}$$

From (1) and (2),

$$9x + 3y = 159$$

$$2x - 3y = 6$$

$$11x = 165$$

$$x = 15$$

$$3 * 15 + y = 53$$

$$y = 53 - 45$$

$$y = 8$$

Hence,  $x > y$

**108. Answer: E**

$$4x^2 - x - 14 = 0$$

$$4x^2 - 8x + 7x - 14 = 0$$

$$4x(x - 2) + 7(x - 2) = 0$$

$$x = +2, -7/4$$

$$x = +2, -1.75$$

$$5y^2 - 21 + 22 = 0$$

$$5y^2 - 10y - 11y + 22 = 0$$

$$5y(y - 2) - 11(y - 2) = 0$$

$$y = +2, +11/5$$

$$y = +2, +2.2$$

Hence,  $x \leq y$

**109. Answer: B**

$$2x^2 - 13x + 20 = 0$$

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

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

$$x = 4, 5/2$$

$$4y^2 - 18y + 20 = 0$$

$$4y^2 - 10y - 8y + 20 = 0$$

$$4y(y - 10/4) - 8(y - 10/4) = 0$$

$$y = 2, 10/4$$

$x \geq y$

**110. Answer: C**

$$x^2 - 4x - 117 = 0$$

$$x^2 - 13x + 9x - 117 = 0$$

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$$x(x - 13) + 9(x - 13) = 0$$

$$x = 13, -9$$

$$y^2 + y - 72 = 0$$

$$y^2 + 9y - 8y - 72 = 0$$

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

$$y = 8, -9$$

Relationship can't be determined

111. Answer: E

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

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

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

$$x = 8/5, 2$$

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

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

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

$$y = 2, 3$$

$$x \leq y$$

112. Answer: D

$$2x + 3y = 36 \text{ ---- (1) * 2}$$

$$4x + 6y = 72 \text{ ---- (2)}$$

$$5x - 2y = 14 \text{ ---- (3) * 3}$$

$$15x - 6y = 42 \text{ ---- (4)}$$

From (2) and (4),

$$19x = 114$$

$$x = 6$$

$$2 * 6 + 3y = 36$$

$$3y = 24$$

$$y = 8$$

$$x < y$$

113. Answer: C

$$x^2 - 24x + 128 = 0$$

$$x^2 - 16x - 8x + 128 = 0$$

$$x(x - 16) - 8(x - 16) = 0$$

$$x = 8, 16$$

$$y^2 - 15y + 54 = 0$$

$$y^2 - 9y - 6y + 54 = 0$$

$$y(y - 9) - 6(y - 9) = 0$$

$$y = 9, 6$$

Relationship can't be determined

114. Answer: A

$$x^2 - 14x + 48 = 0$$

$$x^2 - 8x - 6x + 48 = 0$$

$$x(x - 8) - 6(x - 8) = 0$$

$$x = 6, 8$$

$$y^2 - 7y + 12 = 0$$

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

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

$$y = 3, 4$$

$$x > y$$

115. Answer: E

From I,

$$x^2 - 23x + 90 = 0$$

$$x^2 - 18x - 5x + 90 = 0$$

$$x(x - 18) - 5(x - 18) = 0$$

$$(x - 18)(x - 5) = 0$$

$$x = +18, +5$$

From II,

$$y^2 + 2y - 24 = 0$$

$$y^2 + 6y - 4y - 24 = 0$$

$$y(y + 6) - 4(y + 6) = 0$$

$$(y + 6)(y - 4) = 0$$

$$y = -6, +4$$

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x	relation	y
+18	>	-6
+18	>	+4
+5	>	-6
+5	>	+4

So,  $x > y$

Hence, option E

**116. Answer: A**

From I,

$$11x^2 + 20x + 9 = 0$$

$$11x^2 + 11x + 9x + 9 = 0$$

$$11x(x + 1) + 9(x + 1) = 0$$

$$(x + 1)(11x + 9) = 0$$

$$x = -1, -9/11$$

From II,

$$y^2 + 7y + 12 = 0$$

$$y^2 + 4y + 3y + 12 = 0$$

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

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

$$y = -4, -3$$

x	relation	Y
-1	>	-4
-1	>	-3
-9/11	>	-4
-9/11	>	-3

So,  $x > y$

Hence, option A

**117. Answer: C**

From I,

$$x^2 + 3x - 40 = 0$$

$$x^2 + 8x - 5x - 40 = 0$$

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

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

$$x = -8, +5$$

From II,

$$y^2 - 17y + 60 = 0$$

$$y^2 - 12y - 5y + 60 = 0$$

$$y(y - 12) - 5(y - 12) = 0$$

$$(y - 12)(y - 5) = 0$$

$$y = +12, +5$$

x	relation	Y
-8	<	+12
-8	<	+5
+5	<	+12
+5	=	+5

So,  $x \leq y$

Hence, option C

**118. Answer: D**

From I,

$$x^2 + 21x + 104 = 0$$

$$x^2 + 13x + 8x + 104 = 0$$

$$x(x + 13) + 8(x + 13) = 0$$

$$(x + 13)(x + 8) = 0$$

$$x = -13, -8$$

From II,

$$y^2 + 17y + 66 = 0$$

$$y^2 + 11y + 6y + 66 = 0$$

## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

$$y(y + 11) + 6(y + 11) = 0$$

$$(y + 11)(y + 6) = 0$$

$$y = -11, -6$$

x	relation	y
-13	<	-11
-13	<	-6
-8	>	-11
-8	<	-6

So,  $x = y$  or the relation cannot be established.

Hence, option D

**119. Answer: B**

From I,

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

$$x^2 - 12x - 8x + 96 = 0$$

$$x(x - 12) - 8(x - 12) = 0$$

$$(x - 12)(x - 8) = 0$$

$$x = +12, +8$$

From II,

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

$$y^2 - 8y - 6y + 48 = 0$$

$$y(y - 8) - 6(y - 8) = 0$$

$$(y - 8)(y - 6) = 0$$

$$y = +8, +6$$

X	relation	Y
+12	>	+8
+12	>	+6
+8	=	+8
+8	>	+6

So,  $x \geq y$

Hence, option B

**120. Answer: E**

$$x^2 + 28x + 192 = 0$$

$$x^2 + 16x + 12x + 192 = 0$$

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

$$x = -16, -12$$

$$y^2 + 19y + 84 = 0$$

$$y^2 + 12y + 7y + 84 = 0$$

$$y(y + 12) + 7(y + 12) = 0$$

$$y = -12, -7$$

Hence,  $x \leq y$

**121. Answer: C**

$$x^2 - x - 110 = 0$$

$$x^2 - 11x + 10x - 110 = 0$$

$$x(x - 11) + 10(x - 11) = 0$$

$$x = +11, -10$$

$$y^2 + 14y + 45 = 0$$

$$y^2 + 9y + 5y + 45 = 0$$

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

$$y = -9, -5$$

The relationship between  $x$  and  $y$  can't be determined

**122. Answer: D**

$$x^2 + 15x + 56 = 0$$

$$x^2 + 8x + 7x + 56 = 0$$

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

$$x = -8, -7$$

$$y^2 - 20y + 91 = 0$$

$$y^2 - 13y - 7y + 91 = 0$$

$$y(y - 13) - 7(y - 13) = 0$$

$$y = +13, +7$$

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Hence,  $x < y$

**123. Answer: B**

$$x^2 - 20x + 99 = 0$$

$$x^2 - 11x - 9x + 99 = 0$$

$$x(x - 11) - 9(x - 11) = 0$$

$$x = +11, +9$$

$$y^2 = 81$$

$$y = \sqrt{81}$$

$$y = \pm 9$$

Hence,  $x \geq y$

**124. Answer: A**

$$x^2 - 25x + 156 = 0$$

$$x^2 - 12x - 13x + 156 = 0$$

$$x(x - 12) - 13(x - 12) = 0$$

$$x = +12, +13$$

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

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

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

$$y = -2, +6/5$$

$$y = -2, +1.2$$

Hence,  $x > y$

**125. Answer: D**

From I  $\Rightarrow 5x^2 - 26x + 33 = 0$

$$5x^2 - 11x - 15x + 33 = 0$$

$$x(5x - 11) - 3(5x - 11) = 0$$

$$\Rightarrow (5x - 11)(x - 3) = 0$$

$$\Rightarrow x = 2.2, 3$$

From II  $\Rightarrow 2y^2 - 15y + 27 = 0$

$$2y^2 - 9y - 6y + 27 = 0$$

$$y(2y - 9) - 3(2y - 9) = 0$$

$$\Rightarrow (y - 3)(2y - 9) = 0$$

$$\Rightarrow y = 3, 4.5$$

Hence,  $x \leq y$

**126. Answer: A**

From I  $\Rightarrow 3x^2 - 8x + 4 = 0$

$$3x^2 - 6x - 2x + 4 = 0$$

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

$$\Rightarrow (x - 2)(3x - 2) = 0$$

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

From II  $\Rightarrow 5y^2 - 18y + 16 = 0$

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

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

$$\Rightarrow (5y - 8)(y - 2) = 0$$

$$\Rightarrow y = 2, 8/5$$

Hence, relationship between  $x$  and  $y$  cannot be determined

**127. Answer: B**

From I  $\Rightarrow x^2 - 13x + 42 = 0$

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

$$x(x - 7) - 6(x - 7) = 0$$

$$\Rightarrow (x - 7)(x - 6) = 0$$

$$\Rightarrow x = 6, 7$$

From II  $\Rightarrow y^2 - 9y + 20 = 0$

$$y^2 - 5y - 4y + 20 = 0$$

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

$$\Rightarrow (y - 5)(y - 4) = 0$$

$$\Rightarrow y = 4, 5$$

Hence,  $x > y$

**128. Answer: C**

From I  $\Rightarrow 3x^2 - 23x + 40 = 0$

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$$3x^2 - 15x - 8x + 40 = 0$$

$$3x(x-5) - 8(x-5) = 0$$

$$\Rightarrow (3x - 8)(x - 5) = 0$$

$$\Rightarrow x = 8/3, 5$$

$$\text{From II} \Rightarrow 6y^2 + y - 2 = 0$$

$$6y^2 + 4y - 3y - 2 = 0$$

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

$$\Rightarrow (2y - 1)(3y + 2) = 0$$

$$\Rightarrow y = 1/2, -2/3$$

Hence,  $x > y$

**129. Answer: E**

$$\text{From I} \Rightarrow 3x^2 + 14x + 8 = 0$$

$$3x^2 + 12x + 2x + 8 = 0$$

$$3x(x+4) + 2(x+4) = 0$$

$$\Rightarrow (3x + 2)(x + 4) = 0$$

$$\Rightarrow x = -2/3, -4$$

$$\text{From II} \Rightarrow 2y^2 - 17y + 36 = 0$$

$$2y^2 - 9y - 8y + 36 = 0$$

$$y(2y-9) - 4(2y-9) = 0$$

$$\Rightarrow (2y - 9)(y - 4) = 0$$

$$\Rightarrow y = 9/2, 4$$

Hence,  $x < y$

**130. Answer: D**

From I,

$$x^2 - 24x + 140 = 0$$

$$x^2 - 14x - 10x + 140 = 0$$

$$x(x - 14) - 10(x - 14) = 0$$

$$(x - 10)(x - 14) = 0$$

$$x = 10, 14$$

From II,

$$y^2 - 44y + 420 = 0$$

$$y^2 - 14y - 30y + 420 = 0$$

$$y(y - 14) - 30(y - 14) = 0$$

$$(y - 14)(y - 30) = 0$$

$$y = 14, 30$$

Hence,  $x \leq y$

**131. Answer: D**

From I,

$$x^2 - 81 = 0$$

$$x^2 = 81$$

$$x = +9, -9$$

From II,

$$y^3 = 64$$

$$y = \sqrt[3]{64}$$

$$y = 4$$

Hence,  $x = y$  or relationship can't be determined.

**132. Answer: B**

From I,

$$3x^2 - 40x + 112 = 0$$

$$3x^2 - 12x - 28x + 112 = 0$$

$$3x(x - 4) - 28(x - 4) = 0$$

$$(3x - 28)(x - 4) = 0$$

$$x = 28/3, 4$$

From II,

$$3y^2 + 58y + 280 = 0$$

$$3y^2 + 30y + 28y + 280 = 0$$

$$3y(y + 10) + 28(y + 10) = 0$$

$$(3y + 28)(y + 10) = 0$$

$$y = -28/3, -10$$

Hence,  $x > y$

**133. Answer: D**

$$8x + 11y = 14 \dots\dots(1)$$

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$$4x + 5y = 6 \dots\dots(2)$$

$$(2) * 2 \Rightarrow 8x + 10y = 12 \dots\dots\dots(3)$$

From (1) & (3)

$$y = 2$$

$$y = 2$$

sub in (2)

$$4x + 5 * 2 = 6$$

$$4x + 10 = 6$$

$$4x = 6 - 10$$

$$4x = -4$$

$$x = -1$$

Hence,  $x < y$

**134. Answer: B**

From I,

$$x^2 + 12x - 160 = 0$$

$$x^2 - 8x + 20x - 160 = 0$$

$$x(x - 8) + 20(x - 8) = 0$$

$$(x + 20)(x - 8) = 0$$

$$x = -20, 8$$

From II,

$$y^2 - 21y + 110 = 0$$

$$y^2 - 10y - 11y + 110 = 0$$

$$y(y - 10) - 11(y - 10) = 0$$

$$(y - 11)(y - 10) = 0$$

$$y = 11, 10$$

Hence,  $x < y$

**135. Answer: D**

From I,

$$x^2 - 30x + 224 = 0$$

$$x^2 - 14x - 16x + 224 = 0$$

$$x(x - 14) - 16(x - 14) = 0$$

$$(x - 14)(x - 16) = 0$$

$$x = 14, 16$$

From II,

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

$$y^2 - 6y - 14y + 84 = 0$$

$$y(y - 6) - 14(y - 6) = 0$$

$$(y - 14)(y - 6) = 0$$

$$y = 14, 6$$

Hence,  $x \geq y$

**136. Answer: A**

From I,

$$2x^2 + 9x - 243 = 0$$

$$2x^2 - 18x + 27x - 243 = 0$$

$$2x(x - 9) + 27(x - 9) = 0$$

$$(2x + 27)(x - 9) = 0$$

$$x = -27/2, 9$$

From II,

$$2y^2 - 57y + 405 = 0$$

$$2y^2 - 30y - 27y + 405 = 0$$

$$2y(y - 15) - 27(y - 15) = 0$$

$$(2y - 27)(y - 15) = 0$$

$$y = +27/2, 15$$

Hence,  $x < y$

**137. Answer: C**

From I,

$$x^2 - 46x + 480 = 0$$

$$x^2 - 16x - 30x + 480 = 0$$

$$x(x - 16) - 30(x - 16) = 0$$

$$(x - 30)(x - 16) = 0$$

$$x = 30, 16$$

From II,

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$$y^2 + 12y - 64 = 0$$

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

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

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

$$y = +4, -16$$

Hence,  $x > y$

**138. Answer: B**

$$x^2 = 49$$

$$x = 7, -7$$

$$(y + 7)^2 = 0$$

$$y^2 + 14y + 49 = 0$$

$$y^2 + 7y + 7y + 49 = 0$$

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

$$y = -7, -7$$

$$x \geq y$$

**139. Answer: E**

$$x^2 + 5x - 84 = 0$$

$$x^2 + 12x - 7x - 84 = 0$$

$$x(x + 12) - 7(x + 12) = 0$$

$$x = 7, -12$$

$$y^2 - 15y + 56 = 0$$

$$y^2 - 8y - 7y + 56 = 0$$

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

$$y = 7, 8$$

$$x \leq y$$

**140. Answer: B**

$$4x^2 + 5x + 1 = 0$$

$$4x^2 + 4x + x + 1 = 0$$

$$4x(x + 1) + 1(x + 1) = 0$$

$$x = -1, -1/4$$

$$2y^2 + 5y + 3 = 0$$

$$2y^2 + 3y + 2y + 3 = 0$$

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

$$y = -1, -3/2$$

$$x \geq y$$

**141. Answer: A**

$$x^2 - 10x + 24 = 0$$

$$x^2 - 6x - 4x + 24 = 0$$

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

$$x = 6, 4$$

$$3y^2 - 14y + 16 = 0$$

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

$$3y(y - 8/3) - 6(y - 8/3) = 0$$

$$y = 2, 8/3$$

$$x > y$$

**142. Answer: C**

$$x^2 + 11x - 126 = 0$$

$$x^2 + 18x - 7x - 126 = 0$$

$$x(x + 18) - 7(x + 18) = 0$$

$$x = 7, -18$$

$$3y^2 - 22y + 35 = 0$$

$$3y^2 - 15y - 7y + 35 = 0$$

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

$$Y = 5, 7/3$$

Relationship can't be determined

**143. Answer: D**

$$x^2 - 16x + 60 = 0$$

$$x^2 - 10x - 6x + 60 = 0$$

$$x(x - 10) - 6(x - 10) = 0$$

$$x = 10, 6$$

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$$y^2 - 22y + 121 = 0$$

$$y^2 - 11y - 11y + 121 = 0$$

$$y(y - 11) - 11(y - 11) = 0$$

$$y = 11, 11$$

$$x < y$$

**144. Answer: A**

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

$$x^2 - x - 2x + 2 = 0$$

$$x(x - 1) - 2(x - 1) = 0$$

$$x = 1, 2$$

$$10y^2 - 13y + 4 = 0$$

$$10y^2 - 8y - 5y + 4 = 0$$

$$10y(y - 8/10) - 5(y - 8/10) = 0$$

$$y = 5/10, 8/10$$

$$x > y$$

**145. Answer: B**

$$x^2 - 45x + 500 = 0$$

$$x^2 - 20x - 25x + 500 = 0$$

$$x(x - 20) - 25(x - 20) = 0$$

$$x = 20, 25$$

$$y^2 - 38y + 360 = 0$$

$$y^2 - 20y - 18y + 360 = 0$$

$$y(y - 20) - 18(y - 20) = 0$$

$$y = 18, 20$$

$$x \geq y$$

**146. Answer: C**

$$x^2 - 20x + 100 = 0$$

$$x^2 - 10x - 10x + 100 = 0$$

$$x(x - 10) - 10(x - 10) = 0$$

$$x = 10, 10$$

$$y^2 = 121$$

$$y = 11, -11$$

Relationship can't be determined

**147. Answer: A**

$$x^2 - 11x + 30 = 0$$

$$x^2 - 6x - 5x + 30 = 0$$

$$x(x - 6) - 5(x - 6) = 0$$

$$x = +6, +5$$

$$2y^2 - 13y + 20 = 0$$

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

$$2y(y - 4) - 5(y - 4) = 0$$

$$y = +4, +5/2$$

$$y = +4, +2.5$$

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

**148. Answer: D**

$$x^2 + 23x + 132 = 0$$

$$x^2 + 11x + 12x + 132 = 0$$

$$x(x + 11) + 12(x + 11) = 0$$

$$x = -11, -12$$

$$y^2 + 11y + 28 = 0$$

$$y^2 + 7y + 4y + 28 = 0$$

$$y(y + 7) + 4(y + 7) = 0$$

$$y = -7, -4$$

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

**149. Answer: D**

$$3x + y = 25 \text{ ---(1)}$$

$$2y + x = 25 \text{ ---(2)}$$

From (1) and (2),

$$6x + 2y = 50$$

$$-2y - x = -25$$

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$$5x = 25$$

$$x = 5$$

$$3 * 5 + y = 25$$

$$y = 25 - 15$$

$$y = 10$$

Hence,  $x < y$

**150. Answer: B**

$$x^2 - 13x + 36 = 0$$

$$x^2 - 9x - 4x + 36 = 0$$

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

$$x = +9, +4$$

$$2y^2 + y - 36 = 0$$

$$2y^2 - 8y + 9y - 36 = 0$$

$$2y(y - 4) + 9(y - 4) = 0$$

$$y = +4, -9/2$$

$$y = +4, -4.5$$

Hence,  $x \geq y$

**151. Answer: E**

$$x^2 + 16x + 63 = 0$$

$$x^2 + 9x + 7x + 63 = 0$$

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

$$x = -9, -7$$

$$y^2 - 5y - 84 = 0$$

$$y^2 - 12y + 7y - 84 = 0$$

$$y(y - 12) + 7(y - 12) = 0$$

$$y = +12, -7$$

Hence,  $x \leq y$

**152. Answer: C**

I).  $5x^2 - 14x - 55 = 0$

$$5x^2 - 25x + 11x - 55 = 0$$

$$5x(x - 5) + 11(x - 5) = 0$$

$$(5x + 11)(x - 5) = 0$$

$$x = -2.2, 5$$

II).  $4y^2 - 2y - 56 = 0$

$$4y^2 - 16y + 14y - 56 = 0$$

$$4y(y - 4) + 14(y - 4) = 0$$

$$(4y + 14)(y - 4) = 0$$

$$y = -3.5, 4$$

Can't be determined

**153. Answer: D**

$$10x - 7y = -16 \rightarrow (1)$$

$$3x - 4y = -1 \rightarrow (2)$$

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

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

$$x < y$$

**154. Answer: A**

I).  $x^2 - 30x + 81 = 0$

$$(x - 27)(x - 3) = 0$$

$$x = 27, 3$$

II).  $3y^2 - 9y + 6 = 0$

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

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

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

$$y = 1, 2$$

$$x > y$$

**155. Answer: E**

I).  $x^4 - 1356 = 1045$

$$x^4 = 2401$$

$$x = 7, -7$$

II).  $y^3 + 183 = 526$

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$$y^3 = 343$$

$$y = 7$$

$$x \leq y$$

**156. Answer: D**

I).  $3x^2 - 25x + 52 = 0$

$$3x^2 - 12x - 13x + 52 = 0$$

$$3x(x - 4) - 13(x - 4) = 0$$

$$(3x - 13)(x - 4) = 0$$

$$x = 13/3, 4 = 4.33, 4$$

II).  $2y^2 - 23y + 65 = 0$

$$2y^2 - 10y - 13y + 65 = 0$$

$$2y(y - 5) - 13(y - 5) = 0$$

$$(2y - 13)(y - 5) = 0$$

$$y = 6.5, 5$$

$$x < y$$

**157. Answer: C**

$$x^2 - 16x + 63 = 0$$

$$x^2 - 9x - 7x + 63 = 0$$

$$x(x - 9) - 7(x - 9) = 0$$

$$(x - 7)(x - 9) = 0$$

$$x = +7, +9$$

$$y^2 - 14y + 45 = 0$$

$$y^2 - 9y - 5y + 45 = 0$$

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

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

$$y = +5, +9$$

The relationship between x and y cannot be established.

**158. Answer: E**

$$x^2 + 29x + 120 = 0$$

$$x^2 + 5x + 24x + 120 = 0$$

$$x(x + 5) + 24(x + 5) = 0$$

$$(x + 24)(x + 5) = 0$$

$$x = -24, -5$$

$$y^2 - 13y - 90 = 0$$

$$y^2 - 18y + 5y - 90 = 0$$

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

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

$$y = -5, +18$$

Hence,  $x \leq y$

**159. Answer: B**

$$x^4 = 4096$$

$$x = \pm 8$$

$$y^2 + 17y + 72 = 0$$

$$y^2 + 9y + 8y + 72 = 0$$

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

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

$$y = -8, -9$$

Hence,  $y \leq x$

**160. Answer: D**

$$5x^2 - 25x + 30 = 0$$

$$x^2 - 5x + 6 = 0$$

$$x^2 - 3x - 2x + 6 = 0$$

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

$$x = +2, +3$$

$$y^2 - 11y + 30 = 0$$

$$y^2 - 5y - 6y + 30 = 0$$

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

$$y = +5, +6$$

Hence,  $x < y$

## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

**161. Answer: B**

$$x^2 - x - 6 = 0$$

$$x^2 - 3x + 2x - 6 = 0$$

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

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

$$x = -2, +3$$

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

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

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

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

$$y = -2, -3$$

Hence,  $x \geq y$

**162. Answer: C**

$$x^2 - 23x + 126 = 0$$

$$x^2 - 14x - 9x + 126 = 0$$

$$x(x - 14) - 9(x - 14) = 0$$

$$(x - 9)(x - 14) = 0$$

$$x = +9, +14$$

$$y^2 + y - 156 = 0$$

$$y^2 + 13y - 12y - 156 = 0$$

$$y(y + 13) - 12(y + 13) = 0$$

$$(y - 12)(y + 13) = 0$$

$$y = +12, -13$$

Relationship between  $x$  and  $y$  cannot be established.

**163. Answer: E**

$$x^2 - 32x + 252 = 0$$

$$x^2 - 18x - 14x + 252 = 0$$

$$x(x - 18) - 14(x - 18) = 0$$

$$(x - 14)(x - 18) = 0$$

$$x = +14, +18$$

$$y^2 - 37y + 342 = 0$$

$$y^2 - 18y - 19y + 342 = 0$$

$$y(y - 18) - 19(y - 18) = 0$$

$$(y - 19)(y - 18) = 0$$

$$y = +19, +18$$

$$x \leq y$$

**164. Answer: A**

$$x^2 - 14x + 48 = 0$$

$$x^2 - 6x - 8x + 48 = 0$$

$$x(x - 6) - 8(x - 6) = 0$$

$$(x - 8)(x - 6) = 0$$

$$x = +8, +6$$

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

$$y^2 - 4y - 5y + 20 = 0$$

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

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

$$y = +5, +4$$

$$x > y$$

**165. Answer: C**

$$x^2 - 5x - 24 = 0$$

$$x^2 - 8x + 3x - 24 = 0$$

$$x(x - 8) + 3(x - 8) = 0$$

$$(x + 3)(x - 8) = 0$$

$$x = -3, +8$$

$$y^2 - 6y - 27 = 0$$

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

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

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

$$y = -3, +9$$

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Relationship between  $x$  and  $y$  cannot be established.

**166. Answer: C**

$$x^2 + 18x + 80 = 0$$

$$x^2 + 8x + 10x + 80 = 0$$

$$x(x + 8) + 10(x + 8) = 0$$

$$(x + 8)(x + 10) = 0$$

$$x = -8, -10$$

$$y^2 + 19y + 90 = 0$$

$$y^2 + 9y + 10y + 90 = 0$$

$$y(y + 9) + 10(y + 9) = 0$$

$$(y + 9)(y + 10) = 0$$

$$y = -9, -10$$

Relationship between  $x$  and  $y$  cannot be established.

**167. Answer: A**

$$x^2 - 26x + 88 = 0$$

$$x^2 - 22x - 4x + 88 = 0$$

$$x(x - 22) - 4(x - 22) = 0$$

$$(x - 4)(x - 22) = 0$$

$$x = 4, 22$$

$$y^2 + 28y + 96 = 0$$

$$y^2 + 24y + 4y + 96 = 0$$

$$y(y + 24) + 4(y + 24) = 0$$

$$(y + 4)(y + 24) = 0$$

$$y = -4, -24$$

$$x > y$$

**168. Answer: B**

$$x^2 - 37x - 78 = 0$$

$$x^2 - 39x + 2x - 78 = 0$$

$$x(x - 39) + 2(x - 39) = 0$$

$$x = 39, -2$$

$$y^2 + 43y + 82 = 0$$

$$y^2 + 41y + 2y + 82 = 0$$

$$y(y + 41) + 2(y + 41) = 0$$

$$y = -41, -2$$

$$x \geq y$$

**169. Answer: C**

$$x^2 + 2x - 120 = 0$$

$$x^2 + 12x - 10x - 120 = 0$$

$$x(x + 12) - 10(x + 12) = 0$$

$$(x - 10)(x + 12) = 0$$

$$x = 10, -12$$

$$y^2 - 12y + 20 = 0$$

$$y^2 - 10y - 2y + 20 = 0$$

$$y(y - 10) - 2(y - 10) = 0$$

$$(y - 2)(y - 10) = 0$$

$$y = 2, 10$$

Relationship between  $x$  and  $y$  cannot be established.

**170. Answer: C**

$$x^2 + 27x + 182 = 0$$

$$x^2 + 13x + 14x + 182 = 0$$

$$x(x + 13) + 14(x + 13) = 0$$

$$x = -13, -14$$

$$y^2 - 4y - 252 = 0$$

$$y^2 - 18y + 14y - 252 = 0$$

$$y(y - 18) + 14(y - 18) = 0$$

$$y = 18, -14$$

Relationship between  $x$  and  $y$  cannot be established.

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**171. Answer: A**

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

$$4x + 3y = 39 \text{ -----(2)}$$

From (1) and (2)

$$x = 39 - 33 = 6$$

$$y = 11 - 6 = 5$$

$$x > y$$

**172. Answer: C**

$$x^2 - 17x + 70 = 0$$

$$x^2 - 10x - 7x + 70 = 0$$

$$x(x - 10) - 7(x - 10) = 0$$

$$x = 10, 7$$

$$y^2 - 20y + 91 = 0$$

$$y^2 - 13y - 7y + 91 = 0$$

$$y(y - 13) - 7(y - 13) = 0$$

$$y = 13, 7$$

Relationship can't be determined

**173. Answer: A**

$$x^2 - 18x + 81 = 0$$

$$x^2 - 9x - 9x + 81 = 0$$

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

$$x = 9, 9$$

$$y^2 - 12x + 32 = 0$$

$$y^2 - 8y - 4y + 32 = 0$$

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

$$y = 4, 8$$

$$x > y$$

**174. Answer: C**

$$x^2 = 196$$

$$x = 14, -14$$

$$y = \sqrt{196} - 4 = 10$$

Relationship can't be determined

**175. Answer: B**

$$4x^2 - 17x + 18 = 0$$

$$4x^2 - 9x - 8x + 18 = 0$$

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

$$x = 2, 9/4$$

$$5y^2 - 19y + 18 = 0$$

$$5y^2 - 10y - 9y + 18 = 0$$

$$5y(y - 2) - 9(y - 2) = 0$$

$$y = 2, 9/5$$

$$x \geq y$$

**176. Answer: E**

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

$$x^2 + 5x - 1x - 5 = 0$$

$$x(x + 5) - 1(x + 5) = 0$$

$$(x - 1)(x + 5) = 0$$

$$x = +1, -5$$

$$3y^2 - 8y + 5 = 0$$

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

$$3y(y - 1) - 5(y - 1) = 0$$

$$(3y - 5)(y - 1) = 0$$

$$y = +1, +5/3$$

Hence,  $x \leq y$

**177. Answer: A**

$$x^2 - 12x + 35 = 0$$

$$x^2 - 7x - 5x + 35 = 0$$

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

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

$$x = +7, +5$$

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

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

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

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

$$y = +4, +2$$

Hence,  $x > y$

**178. Answer: B**

$$3x^2 + 10x + 8 = 0$$

$$3x^2 + 6x + 4x + 8 = 0$$

$$3x(x + 2) + 4(x + 2) = 0$$

$$(3x + 4)(x + 2) = 0$$

$$x = -4/3, -2$$

$$y^2 + 19y + 34 = 0$$

$$y^2 + 17y + 2y + 34 = 0$$

$$y(y + 17) + 2(y + 17) = 0$$

$$(y + 17)(y + 2) = 0$$

$$y = -17, -2$$

Hence,  $x \geq y$

**179. Answer: C**

$$x^2 - 34x + 288 = 0$$

$$x^2 - 16x - 18x + 288 = 0$$

$$x(x - 16) - 18(x - 16) = 0$$

$$(x - 18)(x - 16) = 0$$

$$x = +18, +16$$

$$2y^2 - 51y + 280 = 0$$

$$2y^2 - 16y - 35y + 280 = 0$$

$$2y(y - 8) - 35(y - 8) = 0$$

$$(2y - 35)(y - 8) = 0$$

$$y = +35/2, +8$$

Hence, the relationship between  $x$  and  $y$  cannot be determined.

**180. Answer: A**

$$3x^2 - 41x + 136 = 0$$

$$3x^2 - 24x - 17x + 136 = 0$$

$$3x(x - 8) - 17(x - 8) = 0$$

$$(3x - 17)(x - 8) = 0$$

$$x = +17/3, +8$$

$$3y^2 + 5y - 68 = 0$$

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

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

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

$$y = -17/3, +4$$

Hence,  $x > y$

**181. Answer: D**

$$2x^2 + 57x + 370 = 0$$

$$2x^2 + 20x + 37x + 370 = 0$$

$$2x(x + 10) + 37(x + 10) = 0$$

$$(2x + 37)(x + 10) = 0$$

$$x = -37/2, -10$$

$$2y^2 - 51y + 310 = 0$$

$$2y^2 - 20y - 31y + 310 = 0$$

$$2y(y - 10) - 31(y - 10) = 0$$

$$(2y - 31)(y - 10) = 0$$

$$y = +31/2, +10$$

Hence,  $x < y$

**182. Answer: B**

$$x - \sqrt{256} = 0$$

$$x = \sqrt{256}$$

$$x = 16$$

$$y^3 - 72 = 144$$

$$y^3 = 144 + 72$$

$$y^3 = 216$$

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$$y = 6$$

Hence,  $x > y$

**183. Answer: E**

$$6x + 9y = 27 \dots\dots(1)$$

$$4x + 3y = 15\dots\dots(2)$$

$$(2) * 3 \Rightarrow 12x + 9y = 45 \dots\dots\dots(3)$$

From (1) & (3)

$$x = 3$$

$x = 3$  sub in (2)

$$4(3) + 3y = 15$$

$$12 + 3y = 15$$

$$3y = 15 - 12$$

$$3y = 3$$

$$y = 1$$

Hence,  $x > y$

**184. Answer: A**

$$x^2 + 19x - 330 = 0$$

$$x^2 + 30x - 11x - 330 = 0$$

$$x(x + 30) - 11(x + 30) = 0$$

$$(x - 11)(x + 30) = 0$$

$$x = +11, -30$$

$$y^2 - 40y + 364 = 0$$

$$y^2 - 14y - 26y + 364 = 0$$

$$y(y - 14) - 26(y - 14) = 0$$

$$(y - 26)(y - 14) = 0$$

$$y = +26, +14$$

Hence,  $x < y$

**185. Answer: D**

$$5x^2 + 6x - 27 = 0$$

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

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

$$x=-3, +9/5$$

$$x=-3, +1.8$$

$$y^2-19y+60=0$$

$$y^2-15y-4y+60=0$$

$$y(y-15)-4(y-15)=0$$

$$y=+15, +4$$

Hence,  $x < y$

**186. Answer: B**

$$x^2-9x-136=0$$

$$x^2-17x+8x-136=0$$

$$x(x-17)+8(x-17)=0$$

$$x=+17, -8$$

$$y^2+23y+120=0$$

$$y^2+15y+8y+120=0$$

$$y(y+15)+8(y+15)=0$$

$$y=-15, -8$$

Hence,  $x \geq y$

**187. Answer: A**

$$x^2-14x+48=0$$

$$x^2-8x-6x+48=0$$

$$x(x-8)-6(x-8)=0$$

$$x=+6, +8$$

$$2y^2+3y-77=0$$

$$2y^2+14y-11y-77=0$$

$$2y(y+7)-11(y+7)=0$$

$$y=-7, +11/2$$

$$y=-7, +5.5$$

Hence,  $x > y$

**188. Answer: C**

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## Quadratic Equation Memory – Based Questions Asked in IBPS RRB PO / Clerk (Eng)

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

$$x^2+8x+5x+40=0$$

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

$$x=-8, -5$$

$$y^2+17y+60=0$$

$$y^2+12y+5y+60=0$$

$$y(y+12)+5(y+12)=0$$

$$y=-12, -5$$

Hence the relationship between x and y cannot be determined

**189. Answer: D**

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

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

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

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

$$x=-4, -2.5$$

$$y^2-25y+84=0$$

$$y^2-21y-4y+84=0$$

$$y(y-21)-4(y-21)=0$$

$$y=+21, +4$$

Hence,  $x < y$

**190. Answer: E**

$$x^2+21x+80=0$$

$$x^2+16x+5x+80=0$$

$$x(x+16)+5(x+16)=0$$

$$x=-16, -5$$

$$y^2-8y-65=0$$

$$y^2-13y+5y-65=0$$

$$y(y-13)+5(y-13)=0$$

$$y=+13, -5$$

Hence  $x \leq y$ .