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1) $2X^2 + 20X + 50 = 0$

$2Y^2 + 22Y + 56 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

2) $2X^2 - 13X + 21 = 0$

$Y^2 - 33Y + 272 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

3) $X^2 - 29X + 208 = 0$

$Y^2 - 9Y + 14 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

4) $X^2 - 25X + 156 = 0$

$Y^2 - 65Y + 676 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

5) $2X^2 - 7X + 6 = 0$

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

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

6) $X^2 - 39X + 324 = 0$

$Y^2 - 47Y + 420 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

7) $X^2 - 31X + 240 = 0$

$Y^2 - 29Y + 210 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

8) $X^2 + 40X + 391 = 0$

$Y^2 - 20Y - 525 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

9) $4X^2 + 25X + 21 = 0$

$3Y^2 + 29Y + 56 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.

10) $X^2 - 16X + 63 = 0$

$6Y^2 - 29Y + 35 = 0$

(a) $X > Y$

(b) $X < Y$

(c) $X \leq Y$

(d) $X \geq Y$

(e) $X = Y$ / cannot be established.





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11) $X^2 - 18X + 72 = 0$

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

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

12) $X^2 - 31X + 130 = 0$

$Y^2 - 53Y + 702 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

13) $X^2 - 34X + 288 = 0$

$Y^2 - 30Y + 224 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

14) $2X^2 + 11X + 12 = 0$

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

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

15) $X^2 + 9X + 18 = 0$

$12Y^2 + 29Y + 14 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

16) $X^2 - 13X + 40 = 0$

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

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

17) $4X^2 + 12X + 9 = 0$

$2Y^2 + 11Y + 14 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

18) $3X^2 + 5X - 2 = 0$

$5Y^2 - 18Y + 9 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

19) $X^2 - 9X + 20 = 0$

$2Y^2 - 3Y - 20 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

20) $2X^2 - 11X + 14 = 0$

$Y^2 - 9Y + 20 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.





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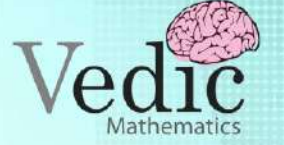
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21) $x(2x + 3) = 90$

$7/\sqrt{Y} + 2/\sqrt{Y} = \sqrt{Y}$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

22) $1/x - 3 + 1/x + 5 = 1/3$

$Y - \sqrt{16} = \sqrt{9}$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

23) $X^2 - 30^{5/2} \times \sqrt{x} = 0$

$Y(55 - y) = 750$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

24) $\sqrt{x + 5} = \sqrt{784} - \sqrt{625}$

$y(27 - y) = 182$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

25) $y^2 - x^2 = 112$

$Y - x = 8$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

26) $480/x = [480(X - 8)] - 3$

$Y(10y - 1) = 2$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

27) $X^2 = 1600, 360 / y = 360 / (y + 5) + 1$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

28) $\sqrt{2116x} - \sqrt{8464} = 0, (625)^{1/4}y - (1000)^{1/3} = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

29) $(x + 2)(x + 1) = (x - 2)(x - 3), (y + 3) \quad (y + 29) = 360$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

30) $9x - 17.45 = 67.55 + 4x,$

$(y - 6)(y - 5) = (y - 4)(y - 3)$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.





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31) $4/\sqrt{x} + 2/\sqrt{x} = \sqrt{x}$

$8/\sqrt{y} + 6/\sqrt{y} = \sqrt{y}$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

32) $X^2 - 300 = 724$

$Y - \sqrt{225} = \sqrt{289}$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

33) $X^2 - 14^{5/2}/\sqrt{x} = 0$

$Y^2 - 11^{5/2}/\sqrt{y} = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

34) $\sqrt{x+20} = \sqrt{256} - \sqrt{169}$

$Y^2 + 256 = 377$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

35) $y^2 - x^2 = 96$

$Y - x = 8$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

36) $x(10x - 1) = 2$

$4y^2 + 3y - 27 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

37) $x^2 = 841, y = \sqrt{841}$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

38) $\sqrt{2025x} + \sqrt{8100} = 0, (625)^{1/4}y + (1331)^{1/3} = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

39) $(16/\sqrt{x}) + (9/\sqrt{x}) = 10\sqrt{x}, (\sqrt{y}/4) + (6\sqrt{y}/12) = (1/\sqrt{y})$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

40) $9x - 15.45 = 64.55 + 4x, \sqrt{y+153} - 6 = 7$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.

41) $5/\sqrt{x} + 7/\sqrt{x} = \sqrt{x}$

$4/\sqrt{y} + 6/\sqrt{y} = \sqrt{y}$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ / cannot be established.





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42) $x^2 - 300 = 325$

$Y - \sqrt{144} = \sqrt{169}$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

43) $x^2 - 11^{5/2}/\sqrt{x} = 0$

$Y^2 - 13^{5/2}/\sqrt{Y} = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

44) $\sqrt{x + 20} = \sqrt{256} - \sqrt{121}$

$Y^2 + 576 = 697$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

45) $y^2 - x^2 = 32$

$Y - x = 4$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

46) $X^2 + 12X + 32 = 0$

$Y^2 + 19Y + 90 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

47) $X^2 - 15X + 56 = 0$

$Y^2 + 17Y + 72 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

48) $X^2 - 23X + 132 = 0$

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

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

49) $X^2 - 32X + 255 = 0$

$Y^2 - 35Y + 306 = 0$

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

50) $X^2 - 21X + 108 = 0$

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

- (a) $X > Y$
- (b) $X < Y$
- (c) $X \leq Y$
- (d) $X \geq Y$
- (e) $X = Y$ /cannot be established.

