

Graphing Calculator Section **Solve by the indicated method:**
Factoring

Answers

1. $12x^2 + 18x + 6 = 0$ $-\frac{1}{2}, -1$	$20x^2 = -25x$ $0, -\frac{5}{4}$	3. $x^2 - 6x + 5 = 0$ 1, 5
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Completing the Square

4. $x^2 - 4x - 13 = 0$ $2 \pm \sqrt{17}$	5.
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Quadratic Formula

<p>6. $x^2 - 11x - 26 = 0$</p> <p>13, -2</p>	<p>7. $20x^2 + 7x - 3 = 0$</p> <p>$\frac{1}{4}, -\frac{3}{5}$</p>	<p>8. $2x^2 - 3x = -2$</p> <p>$\frac{3 \pm i\sqrt{7}}{4}$</p> <p>Answers</p>
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Your choice #9 - 14:

<p>9. $4x^2 - 12x + 7 = 0$</p> <p>$\frac{3 \pm \sqrt{2}}{2}$</p>	<p>10. $x^2 = 64$</p> <p>± 8</p>	<p>11. $9x^2 + 4 = 2x$</p> <p>$\frac{1 \pm i\sqrt{35}}{9}$</p>
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12. $x^2 - x = 30$

-5,6

13. $3x^2 - 8x = 3$

$\frac{-1}{3}, 3$

14. $x^2 + 49 = 0$

$\pm 7i$

Answers

Use a quadratic method to solve the following:

15. $x^4 - 12x^2 + 35 = 0$

$\pm\sqrt{7}, \pm\sqrt{5}$

16.

17. $m^4 = 49$

$\pm\sqrt{7}, \pm i\sqrt{7}$

Non Graphing Calculator Section

Solve by the indicated method:

Factoring

18. $3x^2 + 2x - 21 = 0$

$\frac{7}{3}, -3$

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

$-1, -2$

20. $8x^2 - 2x - 3 = 0$

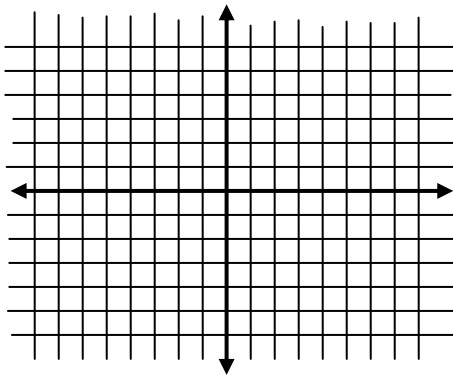
$-\frac{1}{2}, \frac{3}{4}$

Answers

Graphing

Calculate the vertex and at least 2 other points.

21. $-x^2 + x + 6 = y$

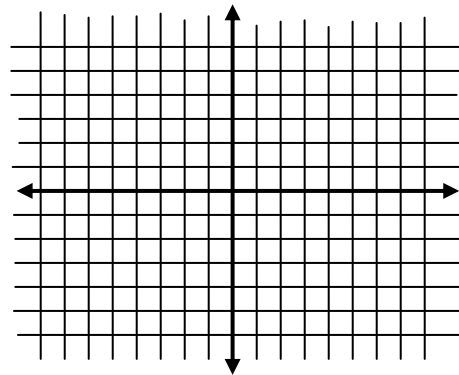


Vertex: $\left(\frac{1}{2}, \frac{25}{4}\right)$

Maximum/Minimum at _____

Roots: _____

22. $4x^2 + 4x + 1 = y$



Vertex: $\left(\frac{1}{2}, 0\right)$

Maximum/Minimum at _____

Roots: _____

24. Solve $3x^2 - 11x - 4 = 0$ with the indicated method. Give an exact answer!

a. Complete the Square:

$$4, \frac{-1}{3}$$

b. Quadratic Formula

$$4, \frac{-1}{3}$$

Write a quadratic equation:

25. with the roots 7, 2

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

Simplify!!

26. in vertex form with vertex (-4, -3) and passing through (-2, 5)

$$5 = a(-2 - (-4))^2 - 3$$

Simplify!!