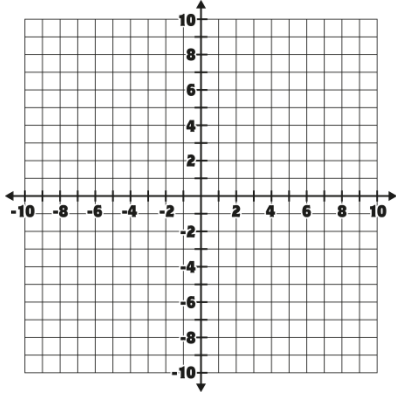


Solving Quadratic Equations by Graphing Homework

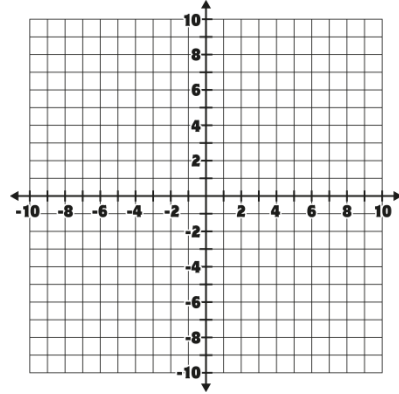
NAME _____

1. Solve each quadratic equation by graphing.

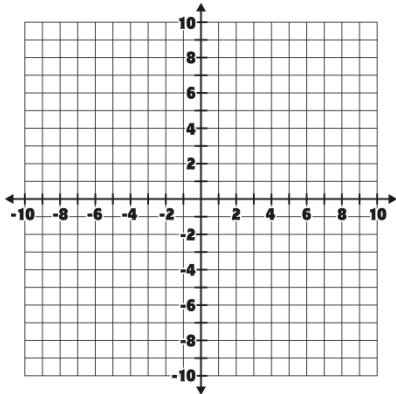
a. $-x^2 + 4 = 0$



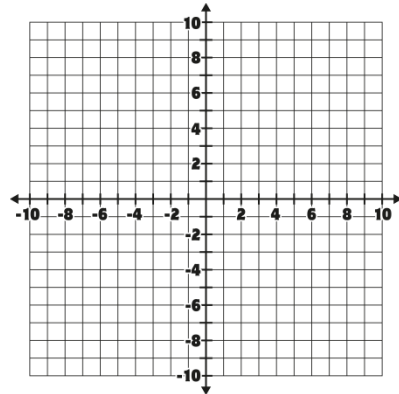
c. $x^2 + x - 2 = 0$



b. $-(x - 2)^2 + 1 = 0$

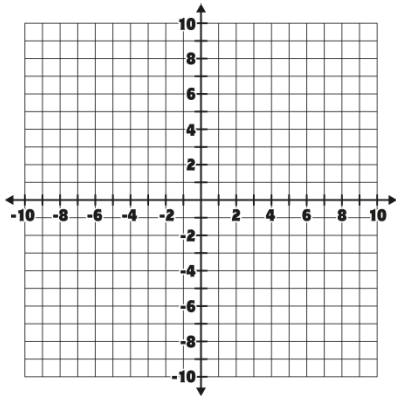


d. $2(x + 3)(x - 1) = 0$



2. Solve $5(x - 1) + 3 = -18$

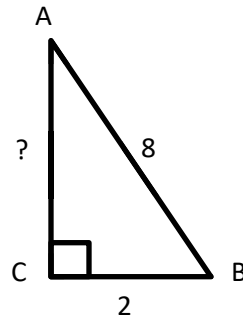
3. Graph $y = 5x - 1$.



4. Find the distance between the points $(1, -4)$ and $(0, 2)$.

5. In the figure below, $\triangle ABC$ is a right triangle. The length of \overline{AB} is 8 units and the length of \overline{BC} is 2 units. What is the length of \overline{AC} ?

- a. $2\sqrt{2}$
- b. $2 + \sqrt{15}$
- c. $4\sqrt{2}$
- d. $2\sqrt{15}$
- e. 15



6. Write the sum of 21,000 and 430,000 in scientific notation.

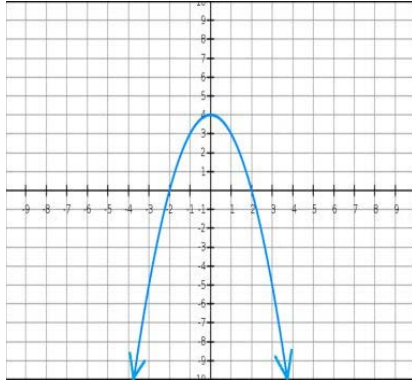
- a. 6.4×10^4
- b. 4.51×10^5
- c. 6.4×10^5
- d. 4.51×10^7
- e. 6.4×10^7

Solving Quadratic Equations by Graphing Homework

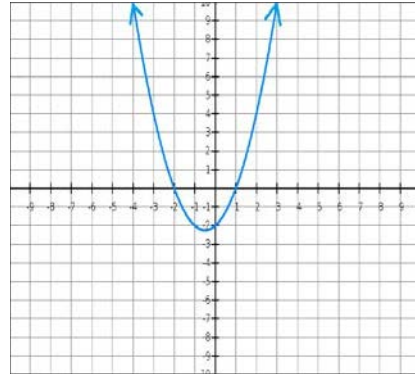
NAME ANSWER KEY

1. Solve each quadratic equation by graphing.

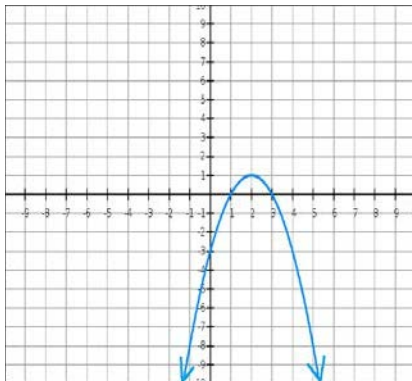
a. $-x^2 + 4 = 0$ $x = -2, 2$



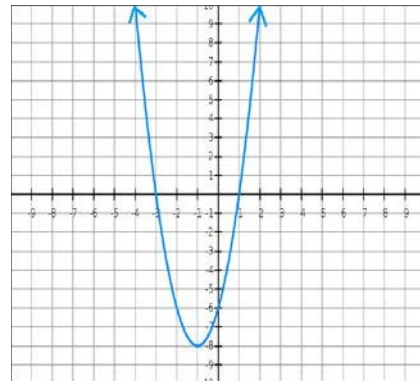
c. $x^2 + x - 2 = 0$ $x = -2, 1$



b. $-(x - 2)^2 + 1 = 0$ $x = 1, 3$

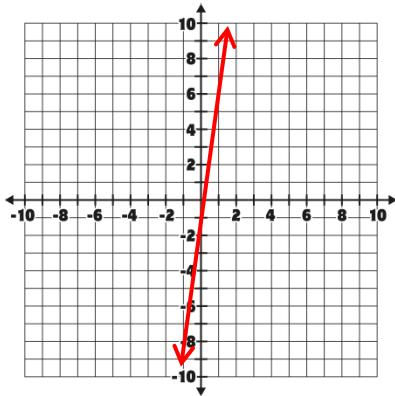


d. $2(x + 3)(x - 1) = 0$ $x = -3, 1$



2. Solve $5(x - 1) + 3 = -18$ $x = -\frac{16}{5}$

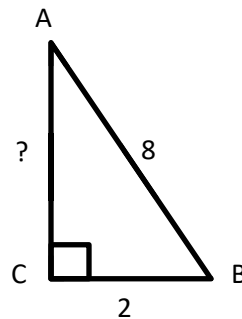
3. Graph $y = 5x - 1$.



4. Find the distance between the points (1, -4) and (0, 2). $d = \sqrt{37}$

5. In the figure below, $\triangle ABC$ is a right triangle. The length of \overline{AB} is 8 units and the length of \overline{BC} is 2 units. What is the length of \overline{AC} ?

- f. $2\sqrt{2}$
- g. $2 + \sqrt{15}$
- h. $4\sqrt{2}$
- i. $2\sqrt{15}$
- j. 15



6. Write the sum of 21,000 and 430,000 in scientific notation.

- f. 6.4×10^4
- g. 4.51×10^5
- h. 6.4×10^5
- i. 4.51×10^7
- j. 6.4×10^7

Special thanks to:

graphsketch.com

