Quadratic Equations: Worksheet

Algebra · Worksheet for https://jugami.com/algebra/quadratics/ · For instant feedback, try the self-guided quiz online.

Name _____ Date _____

Solve each one on paper (problems 1 to 8 ask you to solve for x). Show your work.

1. $x^2 = 81$

Answer: _____

2. $2x^2 - 32 = 0$

Answer: _____

3. $(x - 4)^2 = 25$

Answer: _____

4. $x^2 + 9x + 14 = 0$

Answer: _____

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

Answer: _____

6. $3x^2 + 5x - 2 = 0$

Answer: _____

7. Solve by completing the square: $x^2 + 6x + 2 = 0$

Answer: _____

8. Use the quadratic formula: $3x^2 - 5x - 2 = 0$

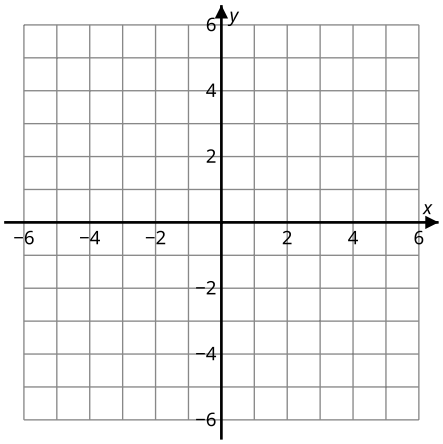
Answer: _____

9. How many real solutions does $3x^2 + 2x + 1 = 0$ have?

Answer: _____

10. Write $y = x^2 - 6x + 5$ in vertex form and give the vertex.

Use the grid.



Answer: _____

11. A ball's height is $h = -5t^2 + 20t + 25$ meters after t seconds. When does it hit the ground?

Answer: _____

Bonus

A little extra practice with the same skills.

12. $x^2 - 7x + 10 = 0$

Answer: _____

13. $2x^2 + x - 1 = 0$

Answer: _____

14. $x^2 + 4x + 8 = 0$

Answer: _____