

Algebra 9-5 Quadratic Formula

Use the Quadratic Formula to solve the following equations.
(Find the values of x that make the equation true.)

1. $x^2 - 2x - 8 = 0$

2. $x^2 + 4x + 3 = 0$

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

4. $4x^2 - 9 = 0$

5. $x^2 + 5x = -4$

6. $2x^2 = 5 - 9x$

7. On your graphing calculator, graph problem 1 above,
which would be $y = x^2 - 2x - 8$.
Where does the graph cross the x -axis? _____
Look at your answer to problem 1 above.

8. On your graphing calculator, graph problem 2 above,
which would be $y = x^2 + 4x + 3$.
Where does the graph cross the x -axis? _____
Look at your answer to problem 2 above.

9. What can you conclude about solving equations
and their relationship to the x -axis?