

AGS 2  
Module 3.6 Homework

Name \_\_\_\_\_  
Period \_\_\_\_\_

Factor and solve.

1.  $x^2 + 7x - 170 = 0$

2.  $x^2 + 15x - 16 = 0$

3.  $x^2 + 12x + 35 = 0$

4.  $x^2 - 11x - 80 = 0$

Solve using completing the square.

5.  $x^2 - 8x + 12 = 0$

6.  $x^2 - 10x + 11 = 0$

Solve using the quadratic formula.

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

8.  $2x^2 + 11x + 6 = 0$

9. Solve  $x^2 + 2x - 15 = 0$  using factoring, completing the square, and the quadratic formula. Graph  $y = x^2 + 2x - 15$  and find the vertex and x-intercepts.

Factor:

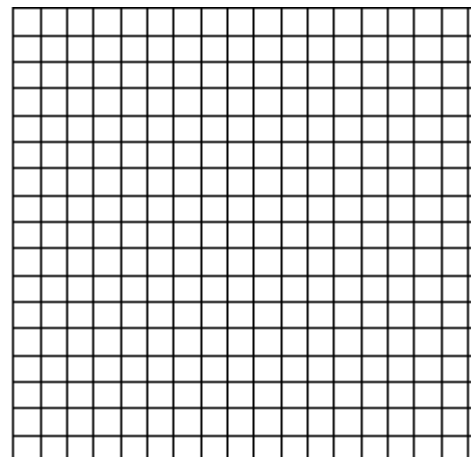
Complete the Square:

Quadratic Formula:

x-intercepts:

vertex:

Graph:



Which method do you prefer? Why?