

Classwork #4 on Quadratics

Solve by completing the square

1) $x^2 - 4x - 8 = 0$

2) $2x^2 - 12x - 7 = 0$

Solve by any means

3) $x^2 - 10x = 0$

4) $4x^2 - 21x + 5 = 0$

5) $x^2 - 8x + 5 = 0$

6. Without solving, determine the number and type of solutions for $x^2 + 9x + 20 = 0$ (I will look for the value of the discriminant):

Put in vertex form

7) $y = x^2 + 5x + 2$

What is the axis of symmetry?

8) $y = x^2 + 7x - 21$

For the following find the vertex using 2 different methods: $f(x) = x^2 - 6x - 7$

9) Method 1:

10) Method 2:

Graph each. Use the method of graphing appropriate for the given form of the quadratic.

11) $y = -x^2 - 4x$

12) $y = \frac{1}{2}(x-2)^2 - 3$

13) $y = 2(x+3)(x+1)$

