Classwork #8 on Quadratics

Solve by any means

1)
$$x^2 - 10x = 0$$

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

3)
$$x^2 - 8x + 5 = 0$$

Without solving, determine the number and type of solutions for each

4)
$$x^2 + 17x + 52$$

5)
$$6x^2 - 10x + 7$$

What is the axis of symmetry

6)
$$y = x^2 + 7x - 21$$

What is the y-intercept and its point of symmetry

7)
$$y = x^2 + 8x - 4$$

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

8) Method 1:

9) Method 2:

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

10)
$$y = -x^2 - 4x + 1$$

11)
$$y = \frac{1}{2}(x-2)^2 - 3$$







