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

Parabola worksheet with vertex at (0,0).

Must show work to receive full credit.

Determine if the parabola opens to the left, right, up or down.

1) (2) (3)

Find the focus and directrix of the following parabolas.

4) (5) (6)

Find the equation of the parabola given that the vertex is (0,0) and the focus or directrix.

7) focus: (4,0) (8) directrix: x = 10 (9) focus

Extra Credit: Graph the following parabola. Identify the focus and directrix as well. Must show complete graph and all information. (5 points each)

a) (b) (c)