

## FUNCTION REVIEW WORKSHEET 1 – QUADRATIC AND ABS VALUE FUNCTIONS

Graph the following functions on a sheet of graph paper. Each function should have its own graph. Label all necessary information such as intercepts, vertex, range and domain.

1.  $f(x) = \frac{1}{2}x^2 - 2x - 7$

2.  $f(x) = x^2 - 6x + 3$

3.  $f(x) = -3x^2 - 24x - 43$

4.  $f(x) = -\frac{1}{4}x^2 + \frac{3}{2}x - \frac{9}{4}$

5.  $f(x) = x^2 - 6$

6.  $y = -|x - 5| - 3$

7.  $y = |x + 2| - 4$

8.  $y = -|x - 2| + 3$

9.  $y = 2|x + 3| - 6$

10.  $y = -|x - 5|$