

Worksheet ---- Graphing Quadratic Functions

1. Identify the vertex and intercepts for each function below:

(a) $f(x) = -3x^2$

(d) $f(x) = x^2 + 4x + 3$

(b) $g(x) = -(x - 2)^2$

(e) $g(x) = -2x^2 + 10x - 7$

(c) $f(x) = \frac{1}{2}(x - 4)^2 + 5$

(f) $f(x) = -\frac{2}{7}(x - 5)^2 - 8$

2. Consider the function $f(x) = (x - 4)^2 - 2$.

(a) Find the x-intercept(s):

(b) Find the y-intercept:

(c) Find the vertex:

(d) What is the axis of symmetry?

(e) What is the maximum or minimum value?

(f) Complete the table of values and graph:

x	y

