

Name: _____ Period: ____ Due Date: February 19, 2019

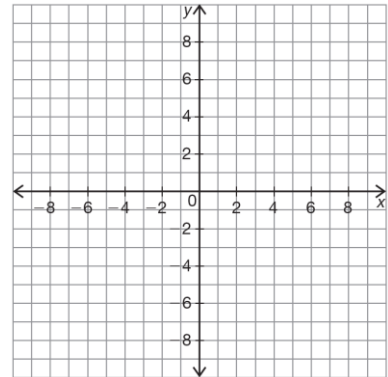
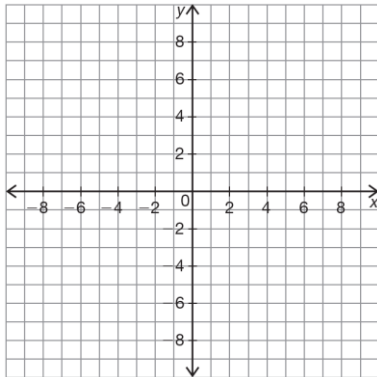
(MATH 4/5 H)

Quadratics Homework #5

Directions: Convert the functions below into the given form and graph the quadratic functions.

1. $f(x) = 2x^2 + 36x - 8$

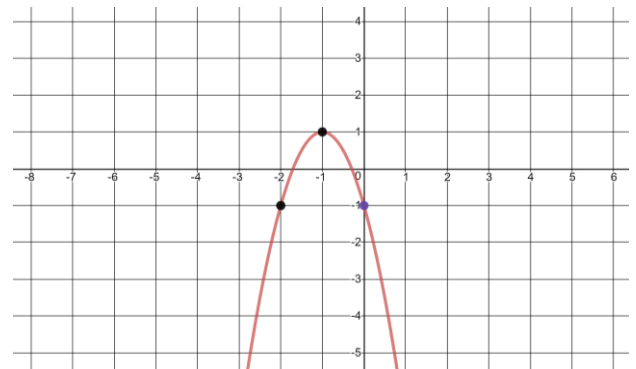
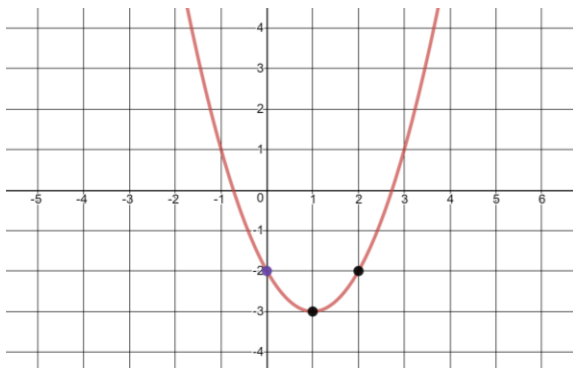
2. $f(x) = -3(x-4)(x+2)$



Directions: Graph each transformation by using the reference points provided.

1. $g(x) = -\frac{1}{2}f(x - 1) + 1$

2. $g(x) = 2f(-x + 1)$



Directions: Simplify.

1. $9+3i(7-2i)$

3. $(2xi-9)(3x+5i)$

2. $-(4i-1+3i)+(6i-10+17)$

4. $\frac{-1+5i}{1-4i}$

Directions: Use the discriminant to determine how many and what type of zeros these have.

1. $f(x)=x^2-4x+7$

2. $f(x)=-\frac{1}{4}x^2+3x-8$

Directions: Find the zeros of the functions.

1. $f(x)=9x^2-12x+4$

2. $f(x)=x^2+2x+10$