BUILDING QUADRATIC FUNCTIONS

1. Given the coordinates of the vertex and the value of "c".
   a) graph opens up, vertex (3, 2), c = 4
   b) graph opens down, vertex (-5, -3), c = 1/4
   c) graph opens to the right, vertex (-2, 7), c = 3/4
   d) graph opens to the left, vertex (4, -3), c = 6

2. Given the coordinates of the vertex and of the focal point.
   a) vertex (3, 5), focal point (5, 5)
   b) vertex (-3, 7), focal point (-11, 7)
   c) vertex (4, -6), focal point (4, -11)
   d) vertex (-3, -4), focal point (-3, 0)

3. Given the coordinates of the vertex and the equation of the directrix
   a) vertex (2, 3), x = 6
   b) vertex (-4, 5), x = -5
   c) vertex (6, 8), y = 12
   d) vertex (-5, -2), y = -6

4. Given the coordinates of the focal point and the equation of the directrix.
   a) focal point (4, 6), x = 8
   b) focal point (-3, 6), x = -5
   c) focal point (6, -9), y = -5
   d) focal point (-2, -4), y = -8

5. Given the vertex and a point on the curve
   a) vertex (3, 6), point (6, 12), opens up
   b) vertex (-2, -5), point (4, -15), opens down
   c) vertex (3, -2), point (7, 20), opens right
   d) vertex (-4, 2), point (-12, 8) opens left

6. Given the endpoints of the latus rectum
   a) (-2, 5) and (8, 5), opens up
   b) (6, -2) and (6, 16) opens right
   c) (-3, 17) and (-3, -3), opens left
   d) (-12, -3) and (2, -3), opens down