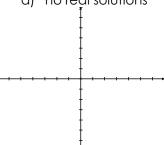
Practice Assignment

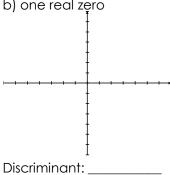
1. Sketch a quadratic function the following solutions. Then describe what the discriminant would look like:

a) no real solutions

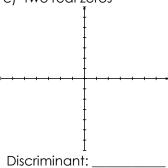


Discriminant: _____

b) one real zero



c) two real zeros



2. Find the discriminant for each equation, and then find the solutions.

a)
$$f(x) = 4x^2 + 4x + 1$$

b)
$$0 = -2x^2 - 10x$$

Discriminant:

Number of Solutions: _____

Solutions:

Discriminant:

Number of Solutions: _____

Solutions:

c)
$$2x^2 + 4x = 7$$

d)
$$f(x) = x^2 - 8x - 23$$

Discriminant:

Number of Solutions: _____

Solutions:

Discriminant:

Number of Solutions: _____

Solutions: _____

e)
$$f(x) = 3x^2 + 6x + 1$$

f)
$$5x^2 - 10x = -5$$

Discriminant:

Number of Solutions: _____

Solutions: _____

Discriminant:

Number of Solutions: _____

Solutions: