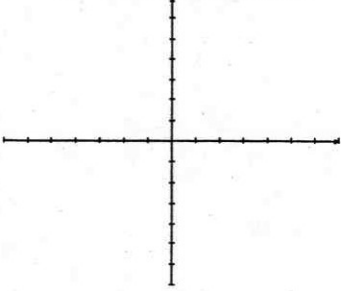


Practice Assignment

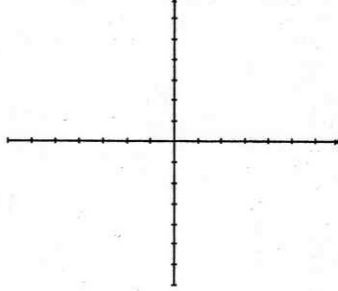
1. Sketch a quadratic function the following solutions. Then describe what the discriminant would look like:

a) no real solutions



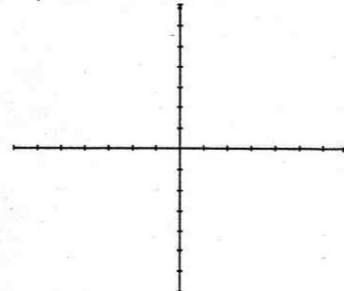
Discriminant: _____

b) one real zero



Discriminant: _____

c) two real zeros



Discriminant: _____

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: _____

Discriminant: _____

Number of Solutions: _____

Number of Solutions: _____

Solutions: _____

Solutions: _____

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

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

Discriminant: _____

Discriminant: _____

Number of Solutions: _____

Number of Solutions: _____

Solutions: _____

Solutions: _____