# Math 131 Graphing Using Transformations
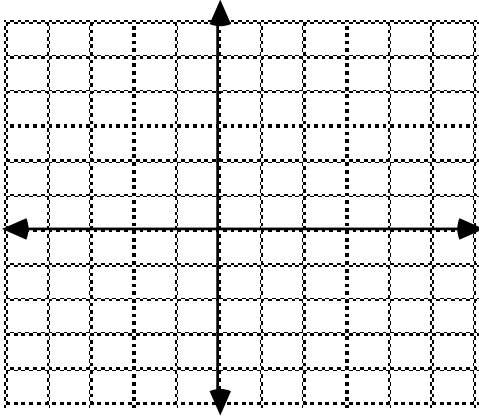
Name: _____

Show scale.  Label one point on each graph.  Label graphs (which equation goes with which graph)

(1)  On the axes below, graph:

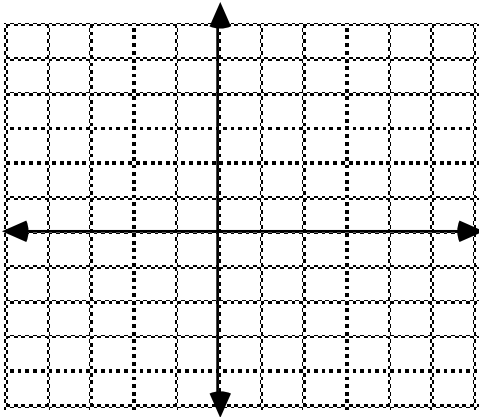    a)  $y = \sqrt{x}$          b)  $y = \sqrt{x+3}$          c)  $y = \sqrt{x} - 2$



(2)  On the axes below, graph:

    a)  $y = x^2$          b)  $y = 3x^2$          c)  $y = -\dfrac{1}{2}x^2$



(3) Graph:  $y = (x-1)^3 - 2$               (4) Graph:  $y = \dfrac{1}{2}|x+2| - 3$