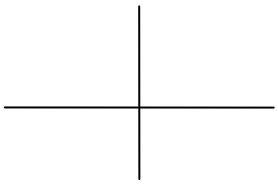
Graphing Self-Test Name_____
SOL'S covered: A.6, A.7abef

1) Define the following terms. (On the test it will be matching.)

A. coordinate plane	B. relation	C. domain
D. graph	E. inverse of a relation	F. linear equation
G. mapping	H. ordered pair	I. origin
J. quadrant	K. range	L. x-axis
M. y-axis	N. slope	

2) Label the quadrants in the coordinate plane AND name the quadrant for each ordered pair.

a) (-1, 2)
b) (-3, -1)
c) (0, 4)
d) (1, 3)
e) (-1, 0)
f) (4, -3)

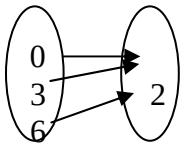


3) For the following relation {(1,0), (2, -1), (-1, 0), (2, 3)}
   a) Draw a mapping.
   b) State the domain.
   c) State the range.
   d) State the inverse of the relation.

4) Solve the following equations for y.
   a) $2x + y = 4$ b) $x - 3y = 6$ c) $2x + 2y = 6$

5) Complete a table and graph using the following domain: {-2, -1, 0, 1, 2}.
   a) $y = -x + 2$ b) $x + 5y = 4$ c) $2x – 3y = 6$

6) Determine whether each relation **and** inverse of the relation is a function.
   a) {(3, 8), (9, 3), (-3, 8), (5, 3)} b)



7) If $g(x) = x^2 – x + 1$, find each value.
   a) g(2) b) g(-1) c) g(1/2)

8) Determine whether each equation is a linear equation. If it is linear, write it in Standard Form (Ax + By = C).

a) $3x + y = 2x$ b) $xy = 4$ c) $\frac{2}{3}x + \frac{4}{5}y = 3$