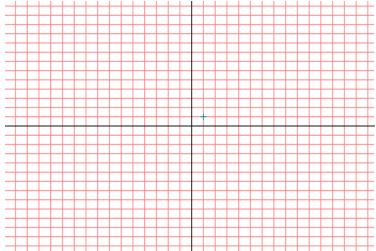
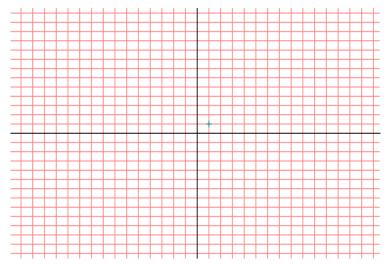
## Linear Functions

1.	Define the following terms:
	a) slope
	b) y-intercept
	c) x-axis
	d) coordinate plane
	e) linear function
2.	Determine the following information:
	a) slope and y-intercept of the equation $-5x + 2y = 7$
	b) the slope of the line segment joining the points (-7, 3) and (4, 8)
	c) the midpoint of the line segment defined by having endpoints of (3, -8) and (11, 4)
	d) the distance between the points (-4, 7) and (-3, -9)
	e) the slope of a line that is parallel to the line with equation $4x - 7y = 11$
	f) the slope of the line perpendicular to another line that has a slope of 5/7

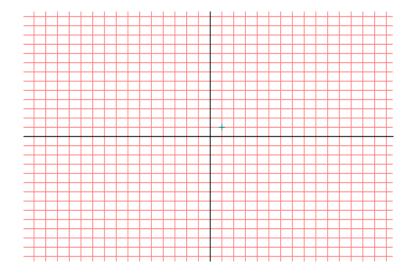
- 3. Graph the following equations using the indicated method: a) Table of values: 4x 2y = -8



b) Intercept method: -5x + 3y = 15



c) Slope intercept method: 2x + 3y = 12



4. Determine the equation of the line given the following information:

a) 
$$m = -5$$
 and  $b = 3$ 

b) 
$$m = -3/4, b = 2$$

c) 
$$m = 5/7$$
 passing through  $(0, -4)$ 

d) 
$$m = -3$$
 passing through  $(-3, 4)$ 

e) 
$$m = -5/3$$
 passing through  $(-2, -6)$ 

f) passing through the points (-3, 5) and (-1, 6)

g) through 
$$(5, 2)$$
 parallel to  $3x - 2y = 6$ 

h) through (-3, 5) perpendicular to -4x + y = 6

- i) through the point (3, -7) and parallel to the x-axis
- j) through the point (-4, -6) and perpendicular to the x-axis

- k) thorough (3, -2) parallel to the line passing through (4, 8) and (6, 16)
- l) through (-5, 1) perpendicular to the line passing through (-5, 2) and (5, 6)

m) perpendicular bisector of the line segment defined by the endpoints (3, 2) and (-9, 10)