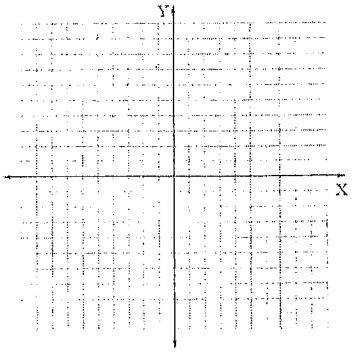
Algebra
5-6A Slope Intercept Form

Name _____
Hour _____

Given the slope and the y-intercept of each line, graph the line, write the equation of the line in slope-intercept form (y = mx + b) and provide 4 other points on the line (2 points to the left of the y-axis, and 2 points to the right of the y-axis).

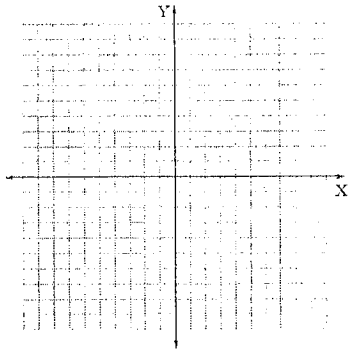
1) slope = 3/4 y-intercept = -2
Equation _____

to the Left (,) (,)
to the Right (,) (,)



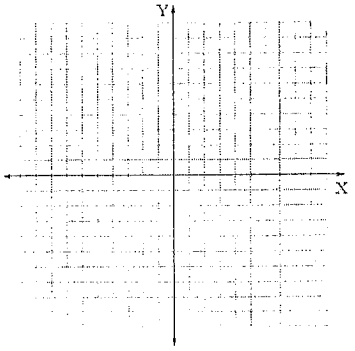
2) slope = -2 y-intercept = 3
Equation _____

to the Left (,) (,)
to the Right (,) (,)



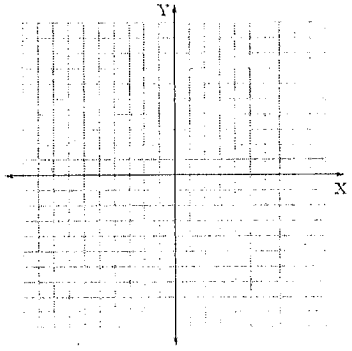
3) slope = 0.5 y-intercept = -6
Equation _____

to the Left (,) (,)
to the Right (,) (,)



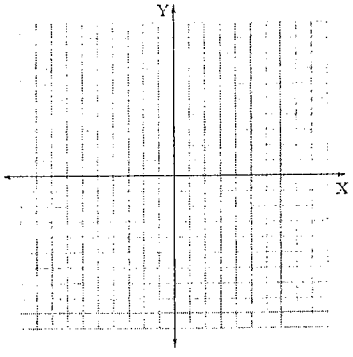
4) slope = 1/3 y-intercept = 0
Equation _____

to the Left (,) (,)
to the Right (,) (,)



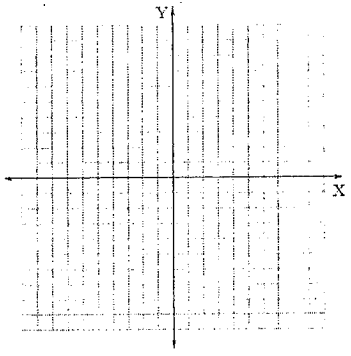
5) slope = -2/3 y-intercept = 5
Equation _____

to the Left (,) (,)
to the Right (,) (,)



6) slope = 0 y-intercept = -6
Equation _____

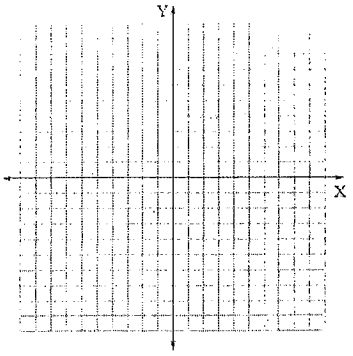
to the Left (,) (,)
to the Right (,) (,)



Given the slope and a point on each line, graph the line, find the y-intercept, write the equation of the line in slope-intercept form (y = mx + b) and provide 2 other points on the line.

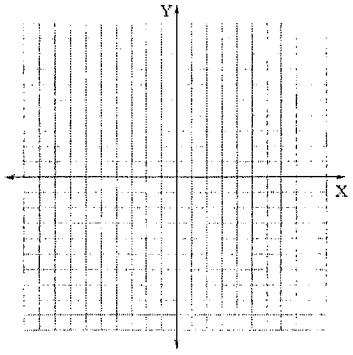
7) slope = -3 point = (-3, 4)
y-intercept = _____
Equation _____

Two other points (,) (,)



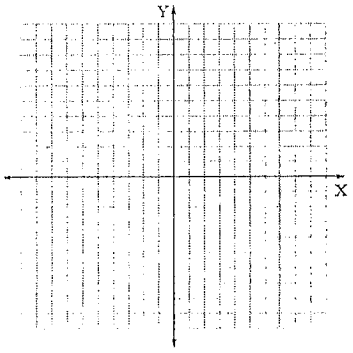
8) slope = -1/2 point = (2, -4)
y-intercept = _____
Equation _____

Two other points (,) (,)



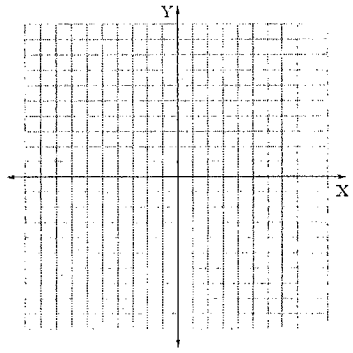
9) slope = 3/2 point = (-6, -8)
y-intercept = _____
Equation _____

Two other points (,) (,)



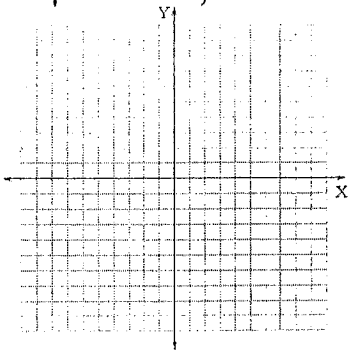
10) slope = -4/3 point = (-9, 9)
y-intercept = _____
Equation _____

Two other points (,) (,)



11) slope = 2/7 point = (-7 , 0)
y-intercept = _____
Equation _____

Two other points (,) (,)



12) slope = 1/6 point = (-3, 1)
y-intercept = _____
Equation _____

Two other points (,) (,)