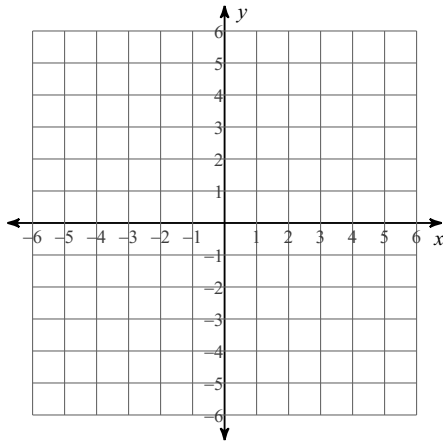


SM2 HW #3-1 (Linear Equations)

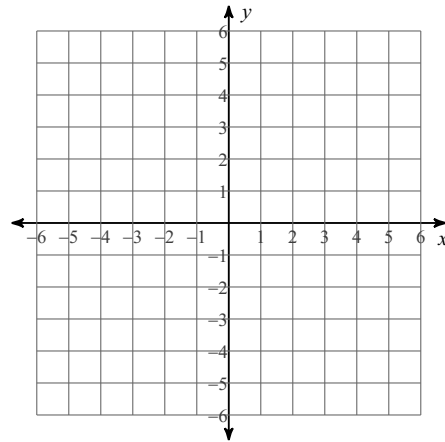
Date _____ Period _____

Sketch the graph of each line.

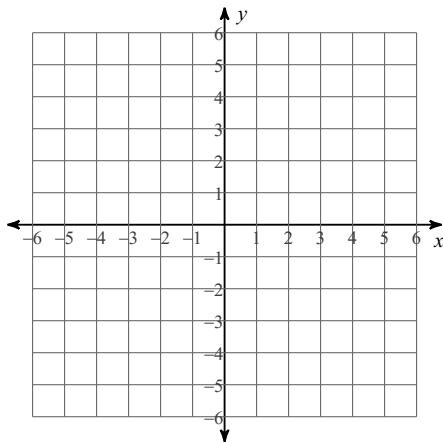
1) x -intercept = -2 , y -intercept = -3



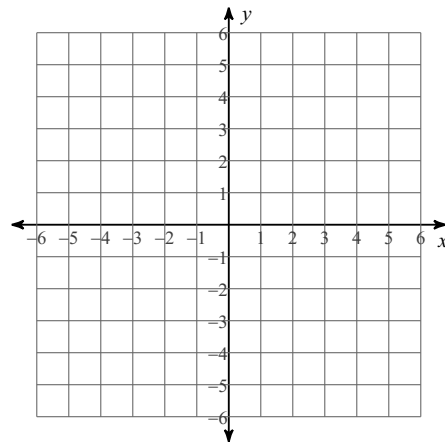
2) x -intercept = -3 , y -intercept = 4



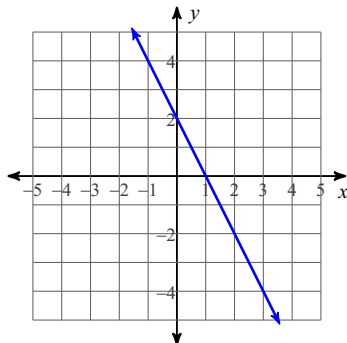
3) $3x - 2y = 6$



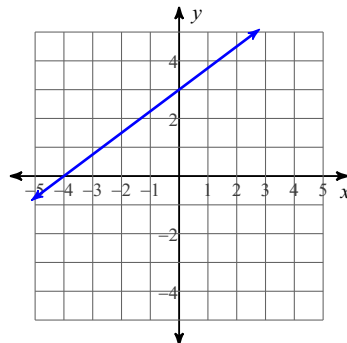
4) $5x + 3y = -15$

**Write the slope-intercept form of the equation of each line.**

5)



6)



7) $8x + 3y = 29$

8) $x + y = -5$

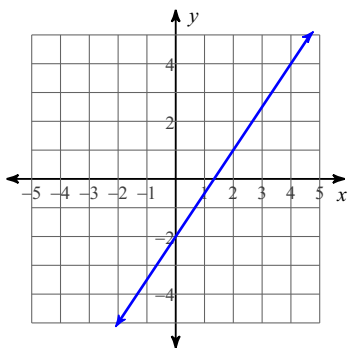
Write the slope-intercept form of the equation of the line through the given points.

9) through: $(0, 4)$ and $(-3, 3)$

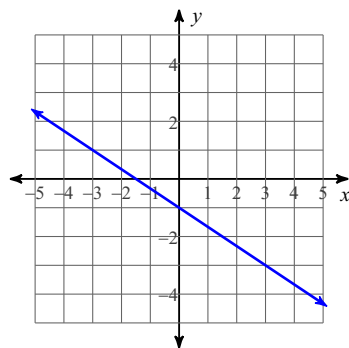
10) through: $(4, 3)$ and $(2, 4)$

Write the slope-intercept form of the equation of each line.

11)



12)



Write the slope-intercept form of the equation of the line through the given point with the given slope.

13) through: $(4, -5)$, slope $= -2$

14) through: $(5, -2)$, slope $= 1$

Write the slope-intercept form of the equation of the line described.

15) through: $(4, 4)$, parallel to $y = \frac{3}{2}x - 1$

16) through: $(4, -2)$, perpendicular
to $y = -\frac{2}{3}x + 1$