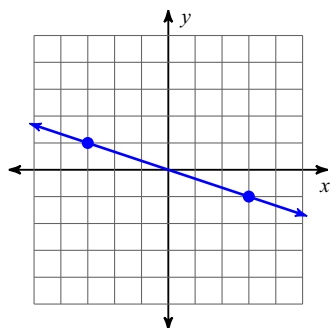


SM2-A HW 4-5 (Review the Linear Function)

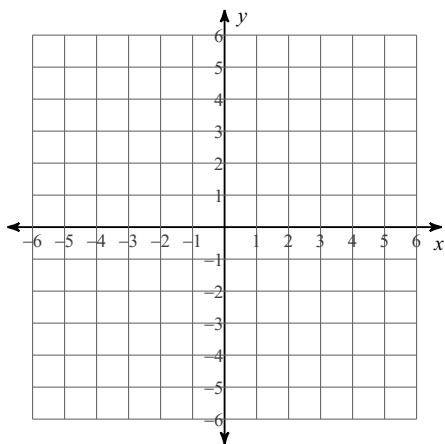
Find the slope of each line.

1)

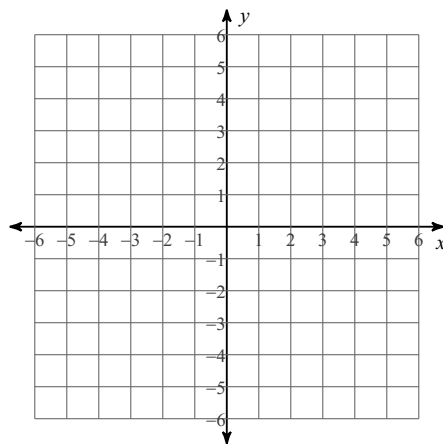


Sketch the graph of each line.

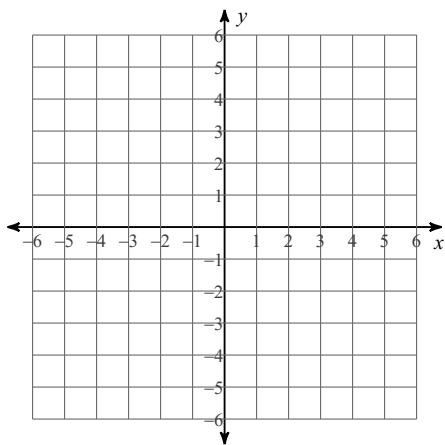
2) $x = -4$



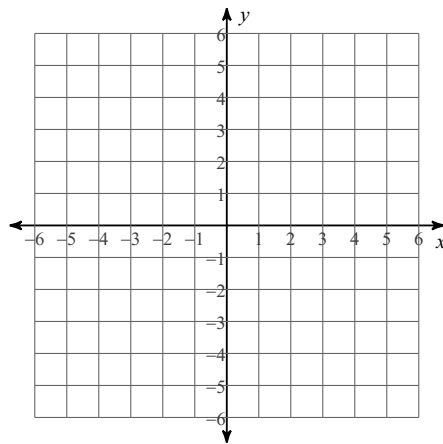
3) $y = -\frac{5}{4}x - 1$



4) $y = \frac{1}{2}x - 2$

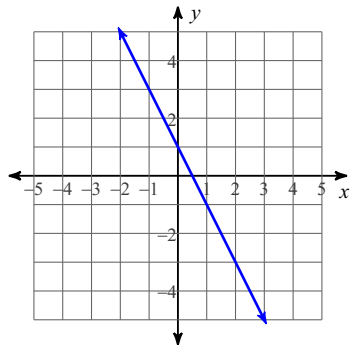


5) $y = x$

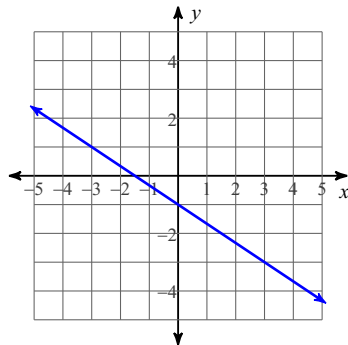


Write the slope-intercept form of the equation of each line.

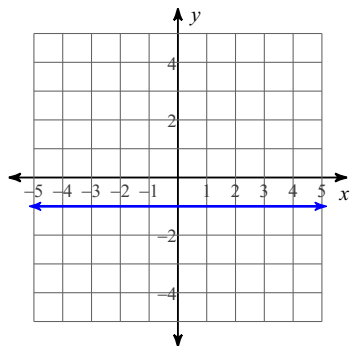
6)



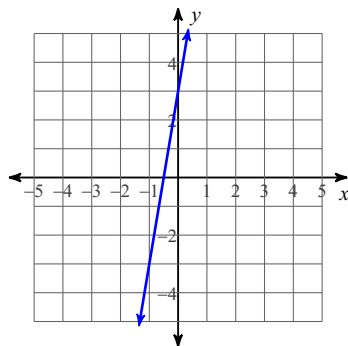
7)



8)



9)



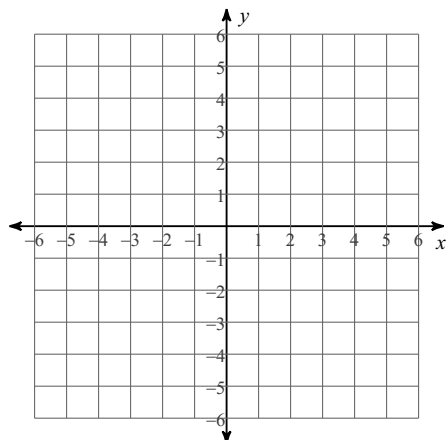
Write the slope-intercept form of the equation of the line through the given points.

10) through: $(4, 5)$ and $(0, -1)$

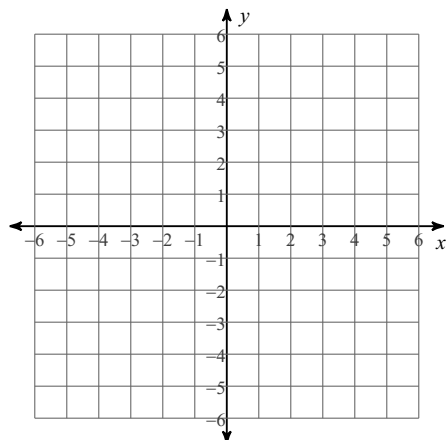
11) through: $(-5, 1)$ and $(4, 5)$

Sketch the graph of each line.

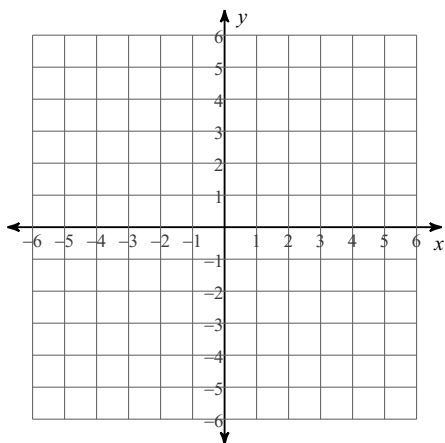
12) x -intercept = -5 , y -intercept = -5



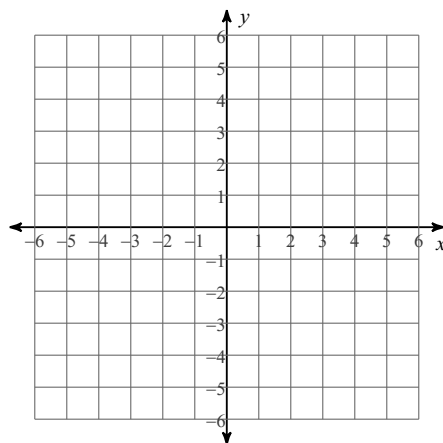
13) x -intercept = 3 , y -intercept = -1



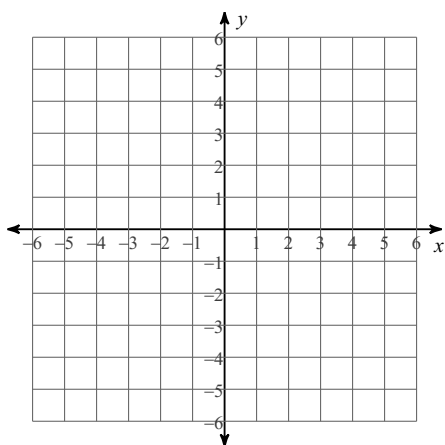
14) $x + y = 4$



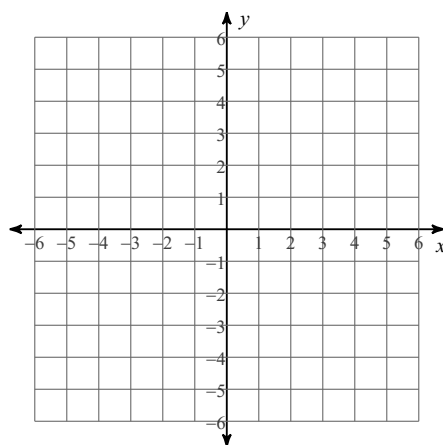
15) $3x + 2y = 6$



16) $x - 3y = -12$



17) $5x - 3y = -15$



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

18) $9x - 5y = -40$

19) $x + 3y = 12$

Simplify. Your answer should contain only positive exponents.

20) $x^{-4}y^4 \cdot 2x^4y^{-1}$

21) $\frac{4m^{-4} \cdot 2mn^{-1}}{3m^0n^0}$