NAME:_____
Period:_____ Date:_____

LINE REVIEW

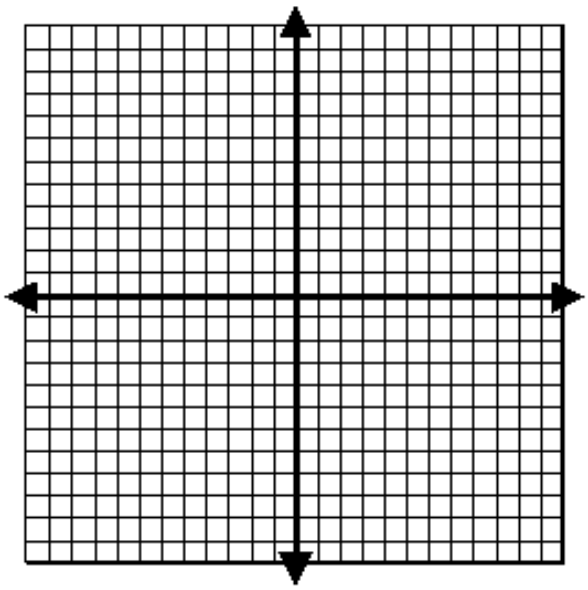
Remember the formula $y = mx + b$.

_____1. In this formula, which variable stands for the ***y-intercept***?

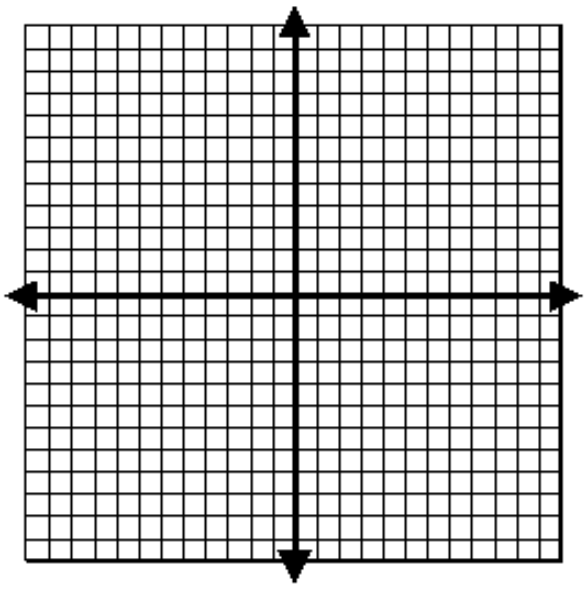
_____2. In this formula, which variable stands for the ***slope***?

Use the slope and y-intercept to graph these lines.

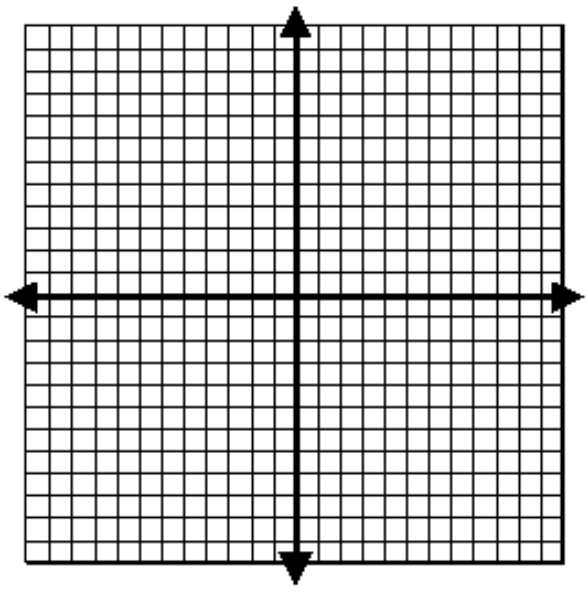
3. $y = \frac{3}{4}x - 5$



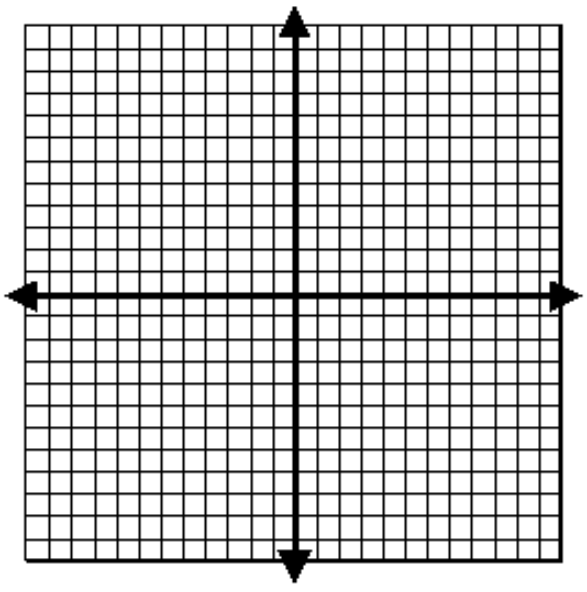
4. $y = -5x + 3$



5. $y = 2 - \frac{2}{3}x$



6. $y = \frac{3}{7}x - 3$



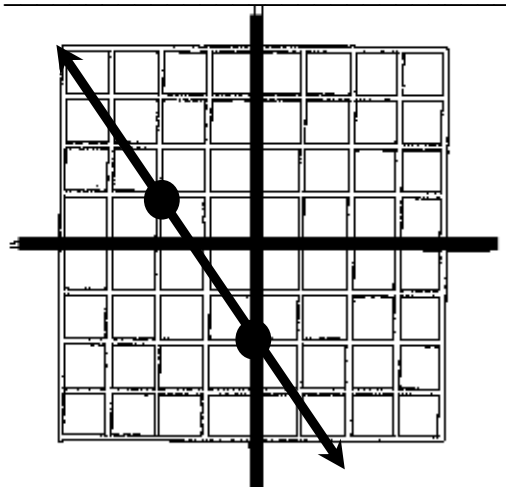
For each line below:

a. Find the y-intercept.
b. Find the slope.
c. Write the equation of the line.

7.
Slope = _____ y-intercept = _____

Equation:

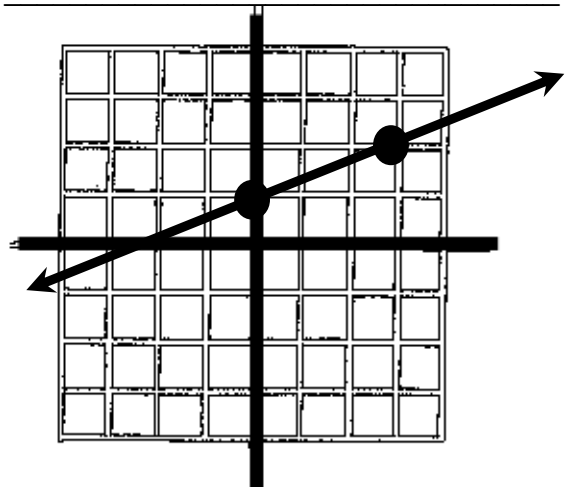
_____



8.
Slope = _____ y-intercept = _____

Equation:

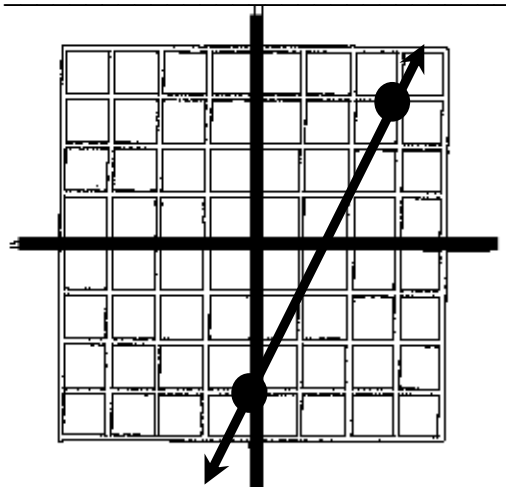
_____



9.
Slope = _____ y-intercept = _____

Equation:

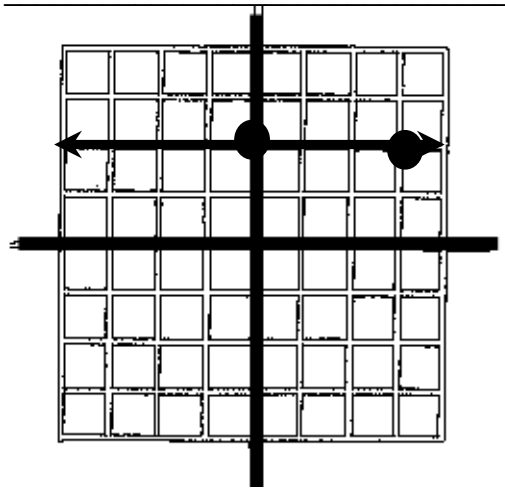
_____



10.
Slope = _____ y-intercept = _____

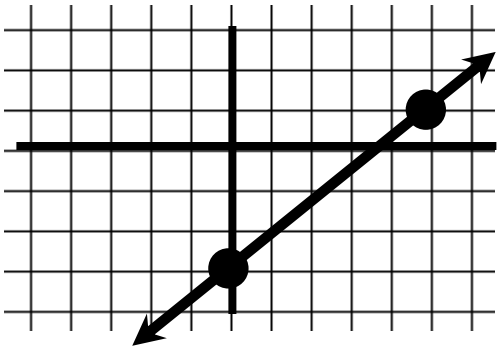
Equation:

_____

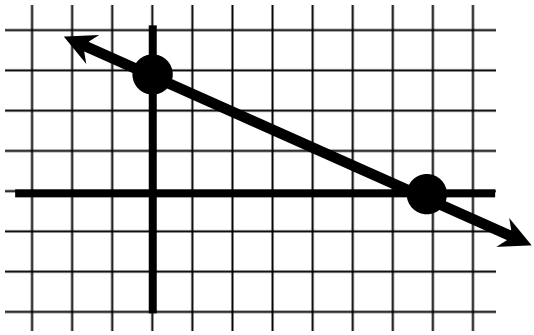


Write equations for these lines.

11. _____



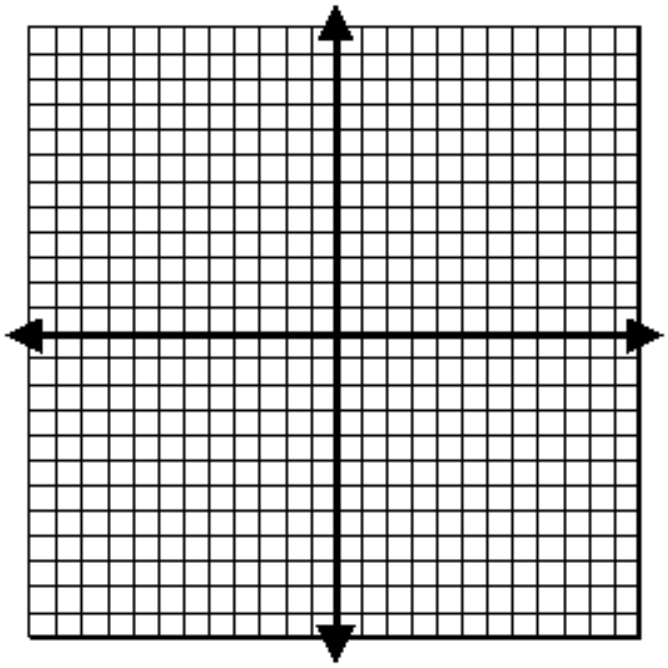
12. _____



Carefully graph each pair of lines. (You may want a ruler.)
Then write the point where the lines cross.

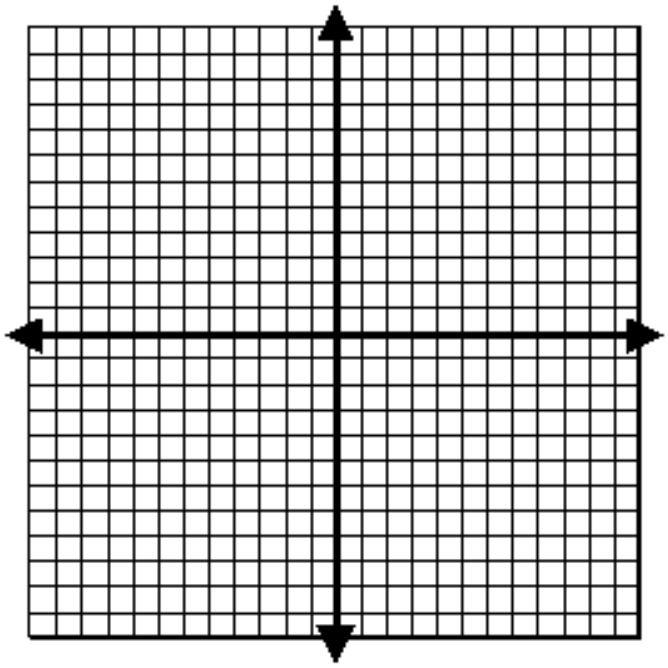
13. $\begin{cases} y = \frac{5}{4}x - 4 \\ y = \frac{-1}{2}x + 3 \end{cases}$

Answer: (_____,_____)



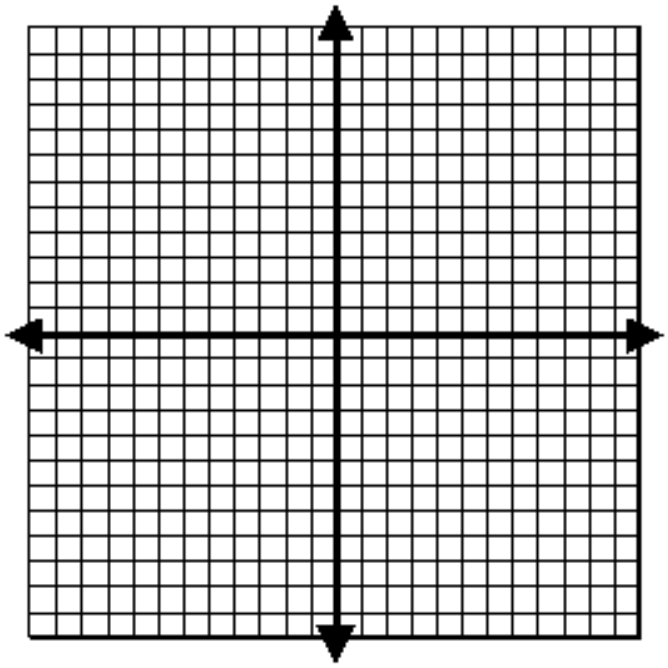
14. $\begin{cases} y = \frac{3}{2}x + 6 \\ y = \frac{-1}{2}x + 2 \end{cases}$

Answer: (_____,_____)



15. $\begin{cases} y = \frac{3}{4}x \\ y = \frac{-3}{2}x + 9 \end{cases}$

Answer: (_____,_____)



Use the slope formula $m = \frac{y_2 - y_1}{x_2 - x_1}$ to find the slope of the line through each pair of points. (If the slope is undefined, write "NONE".)

_____16. $(-7,5)$ and $(3,2)$

_____17. $(5,3)$ and $(5,-1)$

_____18. $(2,7)$ and $(7,11)$

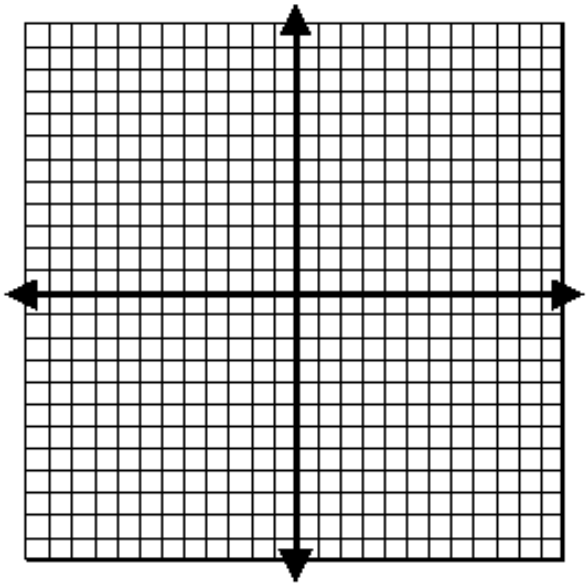
_____19. $(5,9)$ and $(8,4)$

_____20. $(-1,6)$ and $(3,6)$

_____21. $(4,-2)$ and $(5,3)$

Graph these lines.

22. $3x + 6y = 12$



23. $7x - 2y = 14$