

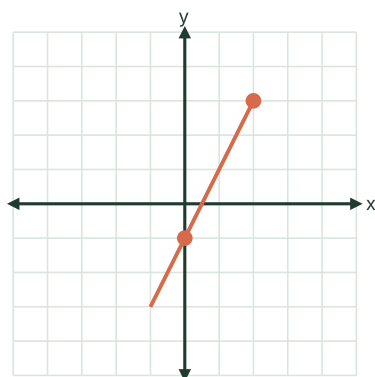
Graphing Linear Equations

HSF.IF.C.7

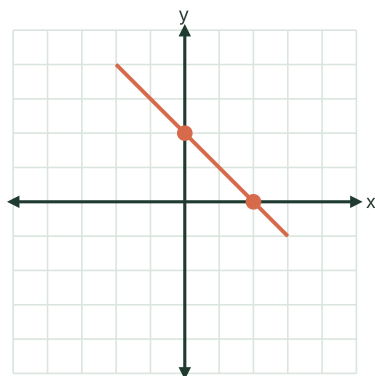
Name _____ Date _____

Show your work in the space provided. For slope-intercept form $y = mx + b$, m is the slope and $(0, b)$ is the y -intercept. To graph from standard form $Ax + By = C$, find the intercepts or solve for y first.

1. Give the slope and y -intercept of $y = 2x + 3$.
2. Give the slope and y -intercept of $y = -3x + 5$.
3. Read the equation of the line drawn on the grid. Write it in the form $y = mx + b$.

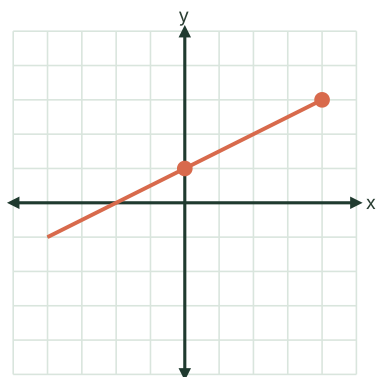


4. Read the equation of the line drawn on the grid. Write it in the form $y = mx + b$.



5. A line has slope $\frac{3}{4}$ and y -intercept -2 . Write its equation, then list the two points you would plot first to graph it.
6. Rewrite $2x + y = 6$ in slope-intercept form, then state the slope and y -intercept.

7. Read the equation of the line drawn on the grid. Write it in the form $y = mx + b$.

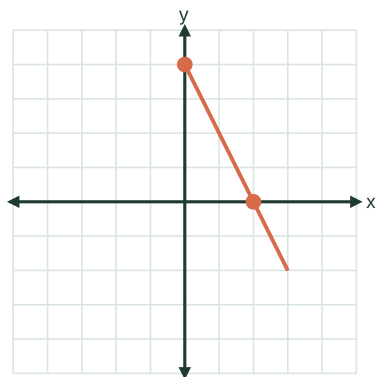


8. Rewrite $3x - 4y = 12$ in slope-intercept form, then state the slope and y -intercept.

9. Find the x -intercept of the line $2x + 5y = 10$.

10. Find both intercepts of $4x + 3y = 12$, then describe how to use them to graph the line.

11. Identify the equation of the line drawn on the grid, then rewrite it in standard form $Ax + By = C$.



12. Write the equation, in slope-intercept form, of the line with slope $\frac{2}{3}$ that passes through $(0, -4)$.

13. Write the equation of the horizontal line that passes through $(-2, -3)$, and state its slope.

14. Which equation is graphed by a line with slope 2 that passes through the point $(0, -1)$?

A) $y = -x + 2$

B) $y = 2x - 1$

C) $y = 2x + 1$

D) $y = -2x - 1$