

1. Find the **slope** of the line that passes through the pair of points.
(3,-7) and (-2,-9)

6. Write an equation for the line that is **parallel** to the given line and passes through the given point.
 $y = -3x + -2; (-5,8)$

2. Put in slope-intercept form and state the slope and y-intercept.

$$y - 8 = \frac{5}{2}(x + 7)$$

$m = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$

7. Find the rate of change: A plant measures 4 cm on day 1 and 15 cm on day 4

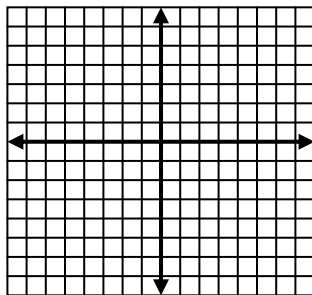
3. Write an equation of a line with the given slope and y-intercept.

$$m = -\frac{1}{4}, b = 3$$

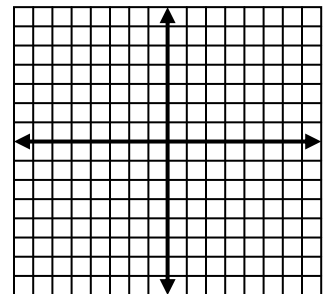
8. Write the equation of the line in slope-intercept form that passes through (9,-1) and (7,5).

4. Use the slope and y-intercept to graph the equation.

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



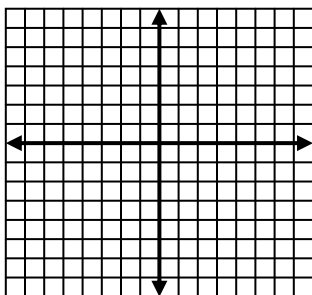
9. Graph $4x - 2y = 6$



5. Graph the equation **using x- and y-intercepts**.

$$2x - 4y = -8$$

Work:



10. Write the equation of a line in slope-intercept form **perpendicular** to $y = 4x - 1$ passing through (12,-2).