KEY

Review on Linear Equations

Write the equation below in slope-intercept form.

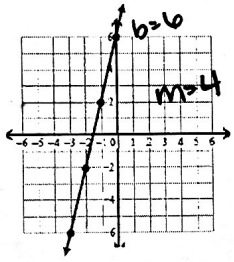
$4x - y = -6$

$\frac{-y = -4x - 6}{-1}$

$y = 4x + 6$

Answer: $y = 4x + 6$

Given the graph, write the equation in slope-intercept form.



Answer: $y = 4x + 6$

Write the equation below in slope-intercept form.

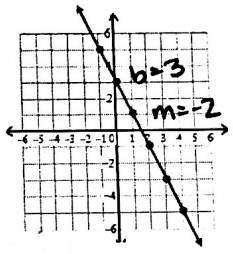
$4x + 2y = 6$

$\frac{2y = -4x + 6}{2}$

$y = -2x + 3$

Answer: $y = -2x + 3$

Given the graph, write the equation in slope-intercept form.



Answer: $y = -2x + 3$

Given the point and slope, write the equation in slope-intercept form.

(-2, -2); slope = 4

$y + 2 = 4(x + 2)$

$y + 2 = 4x + 8$

$-2 \quad -2$

$y = 4x + 6$

Answer: $y = 4x + 6$

Given the two points, write the equation in slope-intercept form.

(-1, 2) and (2, 14)

$\frac{2 - 14}{-1 - 2} = \frac{-12}{-3} = 4 = m$

$y - 2 = 4(x + 1)$

$y - 2 = 4x + 4$

$+2 \quad +2$

$y = 4x + 6$

Answer: $y = 4x + 6$

Given the point and slope, write the equation in slope-intercept form.

(-2, 7); slope = -2

$y - 7 = -2(x + 2)$

$y - 7 = -2x - 4$

$+7 \quad +7$

$y = 2x + 3$

Answer: $y = 2x + 3$

Given the two points, write the equation in slope-intercept form.

(-3, 9) and (4, -5)

$\frac{9 + 5}{-3 - 4} = \frac{14}{-7} = -2$

$y - 9 = -2(x + 3)$

$y - 9 = -2x - 6$

$+9 \quad +9$

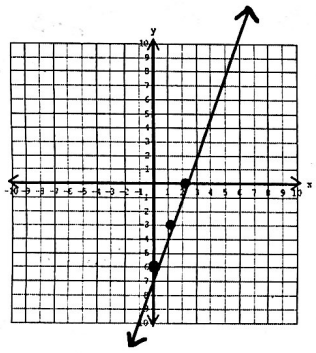
$y = -2x + 3$

Answer: $y = -2x + 3$

Review on Graphing Linear Equations

Rewrite the equation in slope-intercept form. Identify the m and b, then graph!

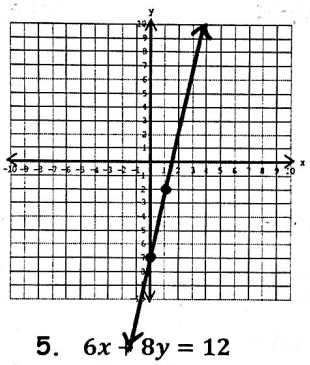
1. $y = 3x - 6$



2. $5x - y = 7$

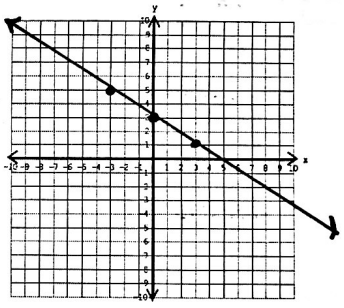
$-y = -5x + 7$

$y = 5x - 7$



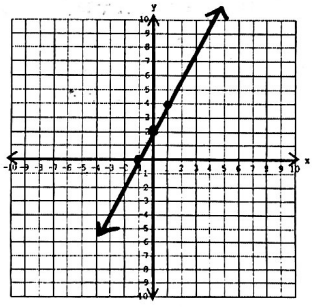
3. $2x + 3y = 9$

$\frac{3y}{3} = \frac{-2x+9}{3}$ $y = \frac{-2}{3}x + 3$



4. $x - 3y + 6 = 0$

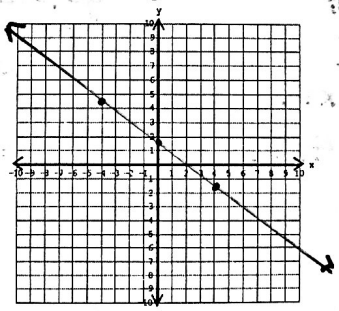
$\frac{-3y}{-3} = \frac{-x-6}{-3}$ $y = +\frac{1}{3}x + 2$



5. $6x + 8y = 12$

$\frac{8y}{8} = \frac{-6x+12}{8}$

$y = \frac{-3}{4}x + 1.5$



6. $x - 4y + 4 = 12$

$-4y + 4 = -x + 12$

$\frac{-4y}{-4} = \frac{-x+8}{-4}$ $y = \frac{1}{4}x - 2$