

key -

UNIT 3 DAY 31
HOMEWORK

- 1) Multiple Choice: What is the y-intercept of the line with the equation $x - 3y = -12$
- a) (0, -12) b) (0, -4) **c) (0, 4)** d) (0, 12)

$$\begin{aligned} -3y &= \frac{-x-12}{-3} \\ y &= \frac{1}{3}x + 4 \end{aligned}$$

#2-4 Rewrite the equation in slope-intercept form. Then identify the slope and the y-intercept of the line.

2) $x - y = 6$

$$\begin{aligned} -x & \quad -x \\ \hline -y &= -x + 6 \\ -y & \quad -1 \\ \hline y &= x - 6 \end{aligned}$$

$m = 1$
 $b = (0, -6)$

3) $-12x - 4y = 2$

$$\begin{aligned} +12x & \quad +12x \\ \hline -4y &= 12x + 2 \\ -4 & \quad -4 \\ \hline y &= -3x - \frac{1}{2} \end{aligned}$$

$m = -3$
 $b = (0, -1/2)$

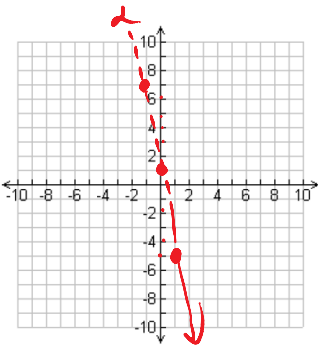
4) $-x - 10y = 20$

$$\begin{aligned} +x & \quad +x \\ \hline -10y &= x + 20 \\ -10 & \quad -10 \\ \hline y &= -\frac{1}{10}x - 2 \end{aligned}$$

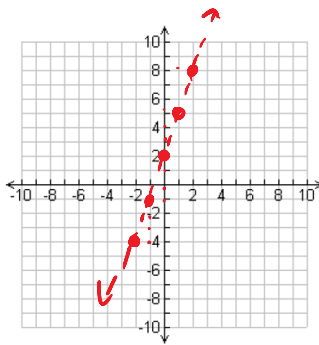
$m = -1/10$
 $b = (0, -2)$

#5-8 Graph the equation.

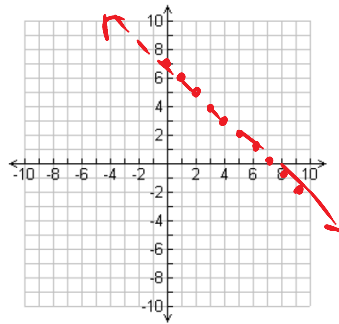
5) $y = -6x + 1$



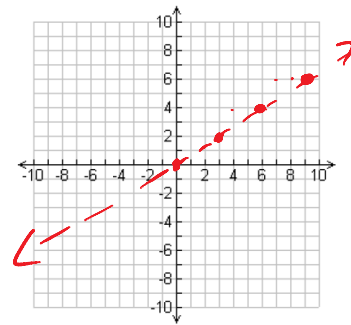
6) $y = 3x + 2$



7) $y = -x + 7$

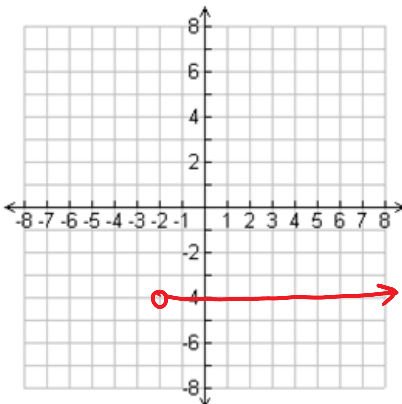


8) $y = \frac{2}{3}x$



Graph the function over the specified domain/range.

Graph $y = -4$ with domain $x > -2$



Graph $x = -1$ with range $y < 7$

