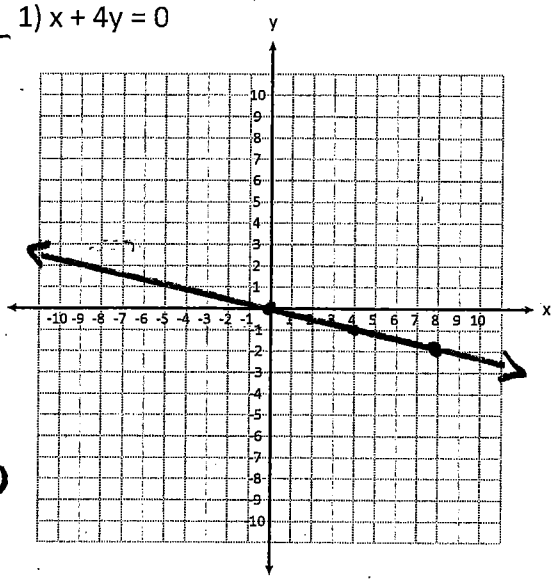
Linear Equations

Name _____

Sketch the Graph of Each Function

1) $x + 4y = 0$



$x + 4y = 0$

$-x \quad -x$

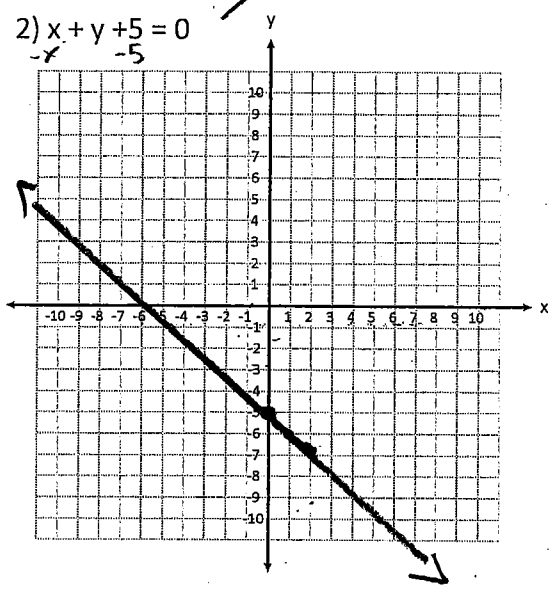
$\frac{4y}{4} = \frac{-x}{4}$

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

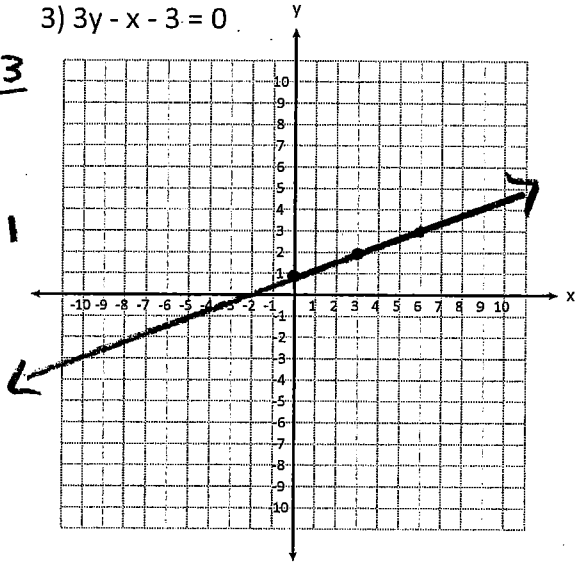
$m = \frac{-1}{4}$ $b = 0$

2) $x + y + 5 = 0$ → $y = -x - 5$

$-x \quad -5$



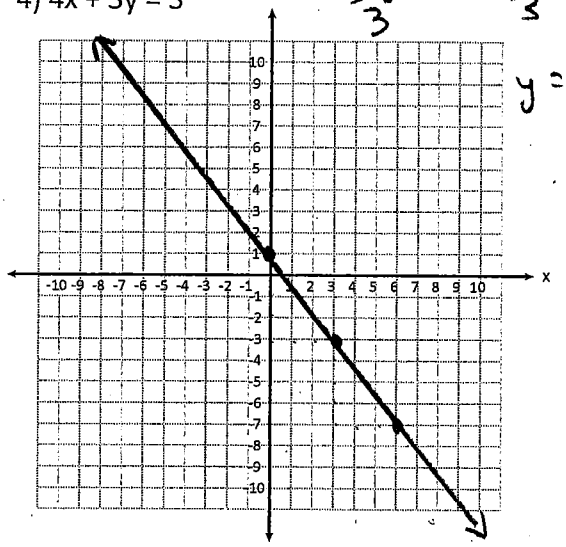
3) $3y - x - 3 = 0$



$\frac{3y}{3} = \frac{x + 3}{3}$

$y = \frac{x}{3} + 1$

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

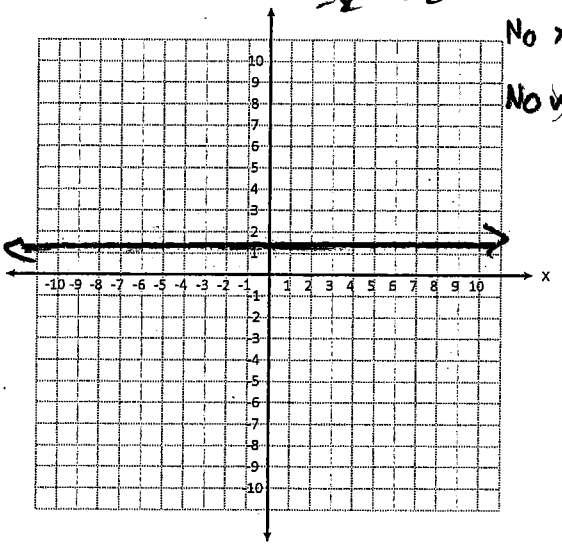


$y = \frac{-4x}{3} + 1$

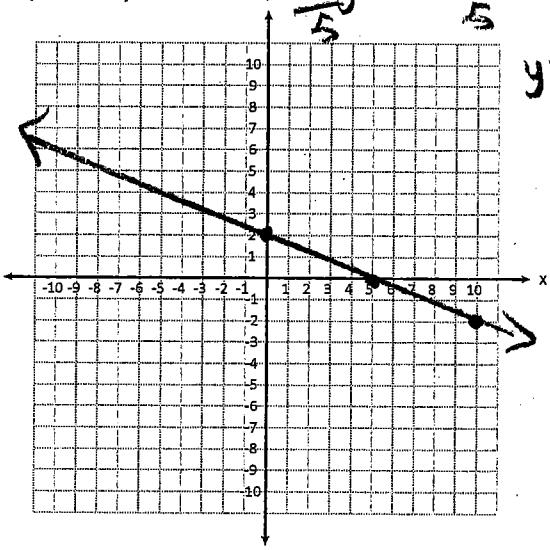
5) $-2y = 10 - 7$ → $\frac{-2y}{-2} = \frac{3}{-2}$ $y = -\frac{3}{2}$

No x!

No m!



6) $2x + 5y = 10$ → $\frac{5y}{5} = \frac{-2x + 10}{5}$



$y = \frac{-2}{5}x + 2$