

4.5 HW Pg 247 1, 2, 4-7, 11-16, 22-26, 32-35

2) Slope-intercept is $y = mx + b$ where
 $m = \text{slope}$ and $b = \text{yint}$

4) $y = -x$
 $m = -1$
 $b = 0$

6) $y = -7 + 5x$
 $m = 5$
 $b = -7$

12) $x - y = 6$
 $\frac{-x}{-x} \quad \frac{-y}{-x}$
 $\frac{+y}{+1} = \frac{-x+6}{-1-1}$

$y = x - 6$
 $m = 1$
 $b = -6$

14) $-12x - 4y = 2$
 $\frac{+12x}{-4} \quad \frac{-4y}{-4} = \frac{12x+2}{-4}$
Put into to
S/I
 $y = mx + b$

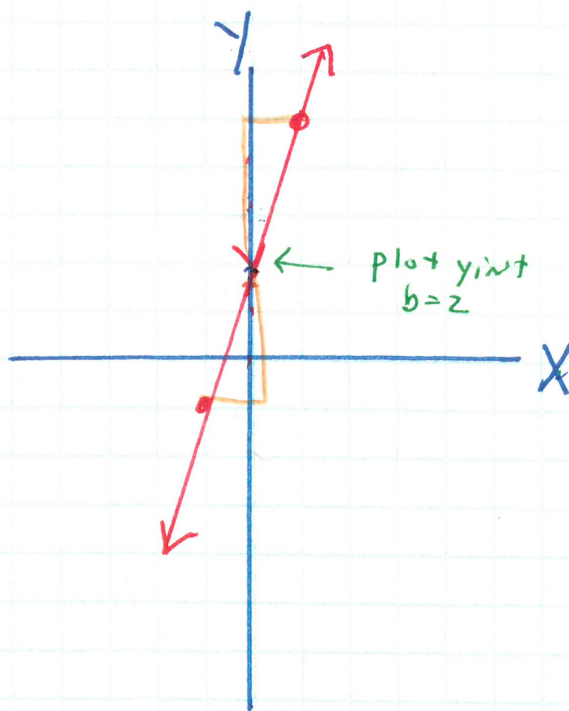
$y = -3x - \frac{1}{2}$
 $m = -3$ $b = -\frac{1}{2}$

16) $-x - 10y = 20$
 $\frac{+x}{10} \quad \frac{-10y}{-10} = \frac{1x+20}{-10}$

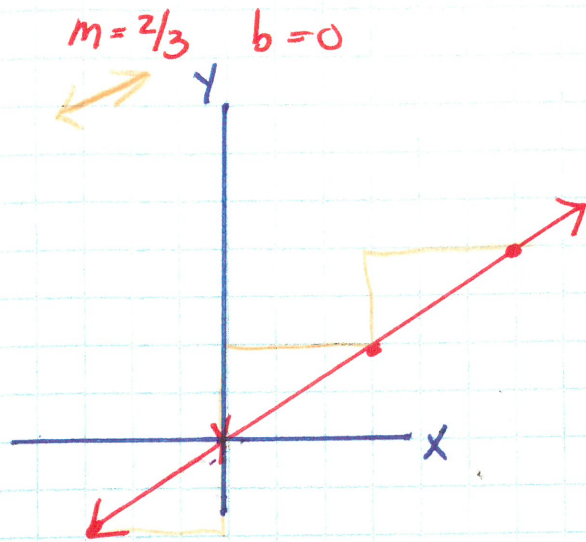
$y = -\frac{1}{10}x - 2$
 $m = -\frac{1}{10}$ $b = -2$

LEAVE SLOPE AS
A SIMPLIFIED IMPROPER
FRACTION.

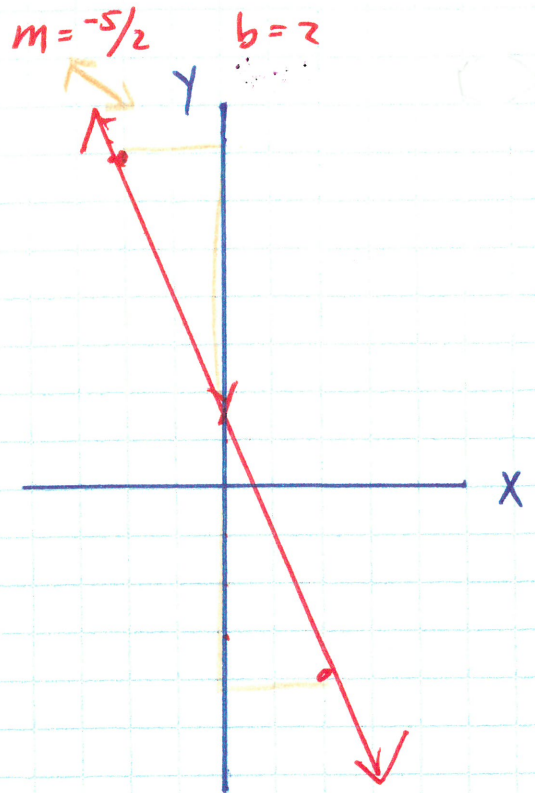
22) $y = 3x + 2$
 $m = \frac{3}{1}$ $b = 2$ $\left(\frac{\text{Rise}}{\text{Run}}\right)$



$$24) y = \frac{2}{3}x$$



$$26) y = -\frac{5}{2}x + 2$$



$$32) y = 5x - 7$$

$m = 5$

$$\begin{array}{r} 5x + y = 7 \\ -5x \quad -5x \\ \hline y = -5x + 7 \end{array}$$

$m = -5$

Different slopes so lines are NOT //.

$$34) y = -5x$$

$m = -5$

OR

$m = -\frac{1}{2}$

$$\begin{array}{r} x + 2y = 18 \\ -x \quad -x \\ \hline \end{array}$$

$$\frac{2y}{2} = \frac{-x + 18}{2}$$

$$y = -\frac{1}{2}x + 9$$

$m = -\frac{1}{2}$

Same slope ($m = -\frac{1}{2}$)
so lines are //.