p. 20-21 Standard form $\quad 2.4$

Warm-Up:
p. 20

Solve for y :

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

HW: What questions do you have?

Directions: For \#1-5, write the equation of the line with the following information:
1.) slope of -1 and $y$-intercept of 3
3.)
passes through the point $(-5,1)$ and has a slope of $-\frac{3}{5}$
4.)
passes through the point $(1,-2)$ and has a slope of 2
5.) passes through the point ( $-1,-3$ ) and has a slope of 3

$\qquad$

2) $1 x_{1} y_{102} x_{2} y_{2}$ $m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}$ $m=\frac{5-3}{0-2}=\frac{2}{-2}$
$m=-1$

$$
y-3=-1(x-2)
$$

$$
y-3=-x+2
$$

$$
y=-x+5
$$

More practice:
pg. 20
solve for y :

3. $-35 x-7 y=56$
4. $x+3 y=-4$

$$
a x+b y=c \quad y=m x+b
$$

1. $\begin{array}{ll}-x-y=-1 \\ -x & \frac{-1}{-1}=\frac{-x-1}{-1}\end{array}$

$$
\text { 2. } \text { 2. }_{2 x+3 y}=-x^{-6} x
$$



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

$$
y=-x-5
$$

$$
\text { 3. } x+y=-5
$$




## Homework assignment: Graphing lines in standard form

