Writing Linear Equations (notes)
Thursday, May 15, 2014
Slope-Intercept form:

$$
y=m \cdot x+b
$$

Write the equation of the lines in slope-intercept form with the given information

Ex: Slope =3
$y$-intercept $=-4$

Ex: slope =1 $y$-intercept $=0$

Ex: slope= (0)

$$
y-\mathrm{int}=6
$$

Ex: slope = undefined $x$-int $=-4$

$$
\begin{aligned}
& y=m x+b \\
& y=3 x-4
\end{aligned}
$$

$$
\begin{aligned}
& y=m x+b \\
& y=1 x+0 \rightarrow y=x
\end{aligned}
$$

$$
\begin{aligned}
& y=m x+b \\
& y=0 x+b \rightarrow y=6
\end{aligned}
$$

$$
x=-4 \underbrace{\text { vertical }} \underset{\substack{\text { cine }}}{\substack{ \\ }}
$$

Write the equation of the line with the given graph


$$
\begin{gathered}
y=m x+b \\
m=\frac{3}{1} \quad y=\frac{3}{1} x+-4 \\
y=3 x-4
\end{gathered}
$$


writing linear equations Page 2

