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## Rearranging into Slope Intercept Form

Aim: How can we rearrange a linear equation in order to find the slope and $y$-intercept?
Recall: The slope-intercept form of a linear equation is:

* Not every linear equation will first appear in slope-intercept form. You must use your algebra skills to get the equation into that form before you can find the slope and y-intercept.

For the following examples, write the equation in slope-intercept form and identify the slope and the $y$ intercept.
1)
$y=14-3 x$
2)
$2 y=6 x+8$
3) $3 y=5 x+9$

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3 x+7 y=14
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Try It: Write the following equations in standard form and then find the slope and y-intercept.

1. $2 x+y=6$
2. $2 y=-4+5 x$
$\mathrm{m}=$ $\qquad$ $\mathrm{b}=$ $\qquad$
$\qquad$ $\mathrm{b}=$ $\qquad$
(\#1-3) Write the following linear equations in standard form and then identify the slope and $y$ intercept.
3. $y-5=3 x$
4. $2 y=4 x+6$
5. $-6 x+2 y=8$
6. Which equation represents a line with the same slope as the line $\mathbf{y}=\mathbf{- 2 x + 3}$ ?
$4 x+2 y=5$
$2 x+4 y=1$
$y=3-4 x$
$y=4 x-2$
7. Which equation represents a line with the same $y$-intercept as $\mathbf{y}=\mathbf{4 x}-\mathbf{3}$ ?
$y-3=x$
$y=8 x+3$
$2 y=8 x-3$
$5 x+6 y=-18$
