Systems of Linear Equations
A system is a set of two or more linear equations $(y=m x+b)$. $y=$-int


For most questions, we are asking:


Does a point "satisfy the equation"?
(also known as "does the point fall on the line?")

OR

Where are the two equations equal?


Coming back to haunt you...

## - rearranging equations

- graphing equations
- determining slope and $y$-intercept
- substituting values into an equation

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## Review of $y=m x+b$ :

Write the following in Slope-Intercept form $(y=m x+b)$ :
a) A line that passes through points $(-1,6)$ and $(1,10)$ \& a y-intercept of 8
$m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}=$ $=\frac{10-6}{1-(-1)}$



## Write the following in Slope-Intercept form

 $(y=m x+b)$ :b) $y=$
b) A line that has a $y$-intercept of -3 and passes through $(4,3)$.


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Write the following in Slope-Intercept form $(y=m x+b)$ :
c) A line that has a $x$-intercept of 2 and passes through $(6,2)$.

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