

Slope - Intercept Form Notes

4/21/15

Y	$=$	m	\cdot	X	$+$	b
Dependent Variable Value depends on X Output		Slope written as a Fraction Number in front of X (coefficient)	Independent Variable Input		y-intercept where the line (graph) crosses the y-axis written as an ordered pair Proper Notation (0, b) Number being added to X (constant)	

Remember: slope must be a fraction

Remember: (0, b)

Equation	Slope (m)	Y-intercept (b)
$y = 3x + 1$	$\frac{3}{1}$	(0, 1)
$y = -2x$	$-\frac{2}{1}$	(0, 0)
$y = \frac{3}{2}x - 2$ <small>Positive person: $\frac{3}{2}x + (-2)$</small>	$\frac{3}{2}$	(0, -2)
$y = -x - 6$	$-\frac{1}{1}$	(0, -6)
$y = 7 - 3x$	$-\frac{3}{1}$	(0, 7)
$y = 21$ <small>*No x is written $21 + 0x$</small>	$\frac{0}{1}$	(0, 21)