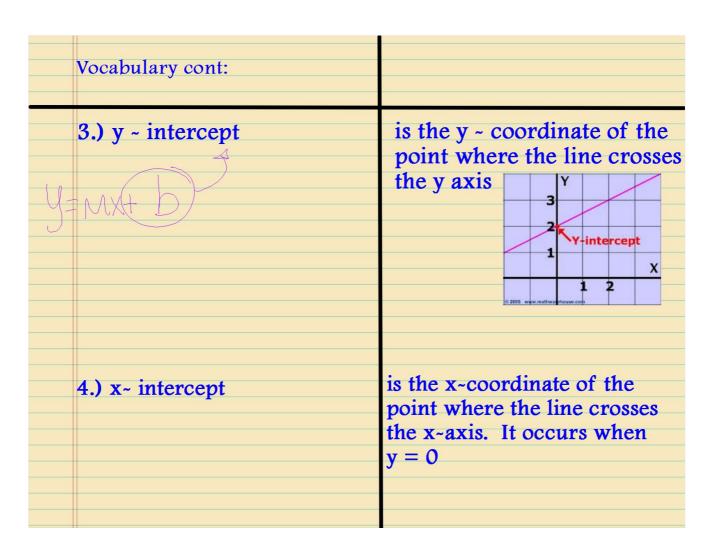
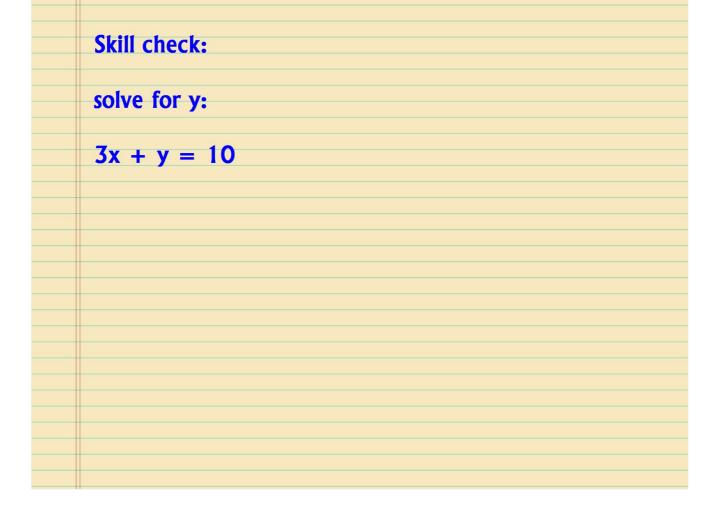


4~4 Skill check: Need to remember	Solve
	Graph the line with the given slope that passes through the given point.  Slope: = 1/4; (0,0)

4-4 Linear Functions: Vocabulary:	Defination
1.) Slope-intercept form:	y = mx + b m = slope b = y ~ intercept
2.) Linear Function:	is a function whose graph is a line ex.)

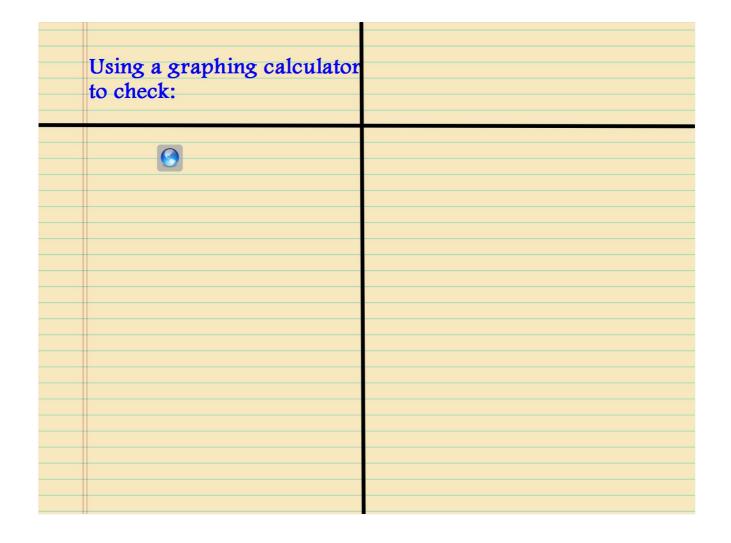




Example 1 Identifying slopes & y-intercepts Rules	
1.) check to see if you need to rearrange y = mx + b  2.) Find the slope m is slope 3.) Find the y~int b is y - int	1.) y = -4x - 2  Slope = 4/~1, ~4/1 do not write as ~4/Clever = ~4 y ~ int. = ~2 (sign in front carries)  2.) y - 5 = 3/2x y= 3/2x +5  Slope = 3/2 (rise 3 over 2) y ~ int= 5 3.) y = 3x - 7  Slope = 3, 3/1, -3/-1 y - int = -7

Practice: rules	Solve
Find the slope.  Find y - int	1.) $y = -3x + 10$ Slope = -3/1, 3/-1, -3 (down 3 over 1) y - int = 10 (line crosses on the y- axis)
1.) not written in slope-int form!!! solve or y	2.) -5y + x = 25  y = x/5 - 5  Slope: 1/5  y - int = -5

Example 2 Graphing using slope intercept form: steps	Solve
1.) Do I need to re-write equation?	1.) $y = -2x + 3$
2.) Slope = 3.) y~int=	y de la constant de l
4.) Plot the y~int on graph	x
5.) Use the slope to guide to the second point	



Practice:	
Steps	Solve:
	1.) $y = 2/3x - 2$
	у
	<

Practice: Steps	Solve Solve
	1.) $y = -x - 1$
	у
	x

Practice:	Calva
Steps	Solve
	1.) $y = 3/2x - 5$
	у
	++++++++
	<

Practice: Steps	Solve
	1.) $2y + 3x = -10$
	y

The graph shows the temperature at different depths below the ground recorded by a mining company. **TEMPERATURE VS. DEPTH** 20.4 20.35 20.3 20.25 20.2 20.15 20.15 20.05 20.05 19.95 0 2 5 8 9 10 3 4 6 7 Depth (in meters) What does the *y*-intercept represent in terms of the given context?