Name:

Date:

Period:

Once the following equations are written in standard form (y = mx + b), identify the slope and y-intercept. **<u>REMEMBER</u>** to write the slope as a **FRACTION**.

		Slope (m)	Y-Intercept (b)			Slope (m)	Y-Intercept (b)			Slope (m)	Y-Intercept (b)
1.	y = 3x + 1			2.	y = x - 3			3.	y = 2x		
4.	y = x			5.	$y = \frac{1}{2}x + 5$			6.	y = -2x + 3		
7.	y = -3x			8.	y = -x - 5			9.	$y = -\frac{2}{3}x + 4$		
10.	y - 3x = 7			11.	2x + y = 5			12.	3y = 6x + 9		
13.	2y = 5x - 4			14.	4x - 3y = 0			15.	6x + 2y = 10		

Using **y** = **mx** + **b** format, write the equation of the line whose <u>slope</u> is the <u>first #</u> given and whose <u>y-intercept</u> is the <u>second #</u> given.

	Equation (y = mx + b)			Equation (y = mx + b)			Equation (y = mx + b)
15. 2 and 7		16.	-1 and –3		17.	0 and –5	
183 and 0		19.	$\frac{2}{3}$ and 1		20.	$\frac{1}{2}$ and 0	
21. $\frac{-1}{3}$ and 2		22.	$\frac{-3}{2}$ and 0		23.	$\frac{1}{4}$ and 5	

Solve for y and identify m and b. Make sure to write slope (m) as a fraction and write the appropriate arrows next to each slope $(\frac{\text{Top } \# \text{ is } + \uparrow \text{ or } - \downarrow}{\text{Bottom } \# \text{ is } \rightarrow})$.

1.	3x + y = 1		2.	8 - y = x		3.	5x - 2y = 12	
	·	m =			m =			m =
		b =			b =			b =
4.	4y + 3x = 16		5.	x – 2y = 8		6.	6 – 3y = -3x	
		m =			m =			m =
		b =			b =			b =
7.	x = 5y + 5		8.	4y + 6 = 2x - 6		9.	3y - 7 = 4x + 2	
		m =			m =			m =
		b =			b =			b =
10.	6x + 3y – 15 = 0		11.	2y + 3y = 5		12.	-3y = -6x + 9	
		m =			m =			m =
		b =			b =			b =
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