5.2: Write Linear Equations in Slope – intercept form

Goals:	*Write an equation in slope – intercept form given slope and one point *Write an equation in slope – intercept form given two points *Write an equation in slope – intercept form given two function values		
Situation one point		of a line in slope – intercept form given the slope and	
1		Ex: slope: -4, passes through (-1, 3)	
2			
3			
Write to	he equation of the line v	with the given slope that passes through the given	
Ex: (6,	3), slope = 2	Ex: (6, 3) slope: -2	
	on 2: write the equation on points:	of the line in slope – intercept form that passes through	
1		Ex: $(-2, 5)(2, -1)$	
2			
3			
4			

Write the equation of the line in slope – intercept form that passes through the given points:

Ex:
$$(3, 0)(2, -4)$$

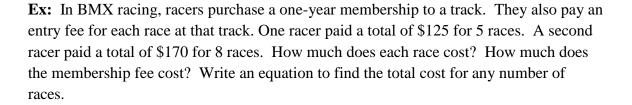
Ex:
$$(1, -2)(5, 4)$$

Ex:
$$f(4) = 9$$
 and $f(-4) = -7$

Ex:
$$f(-2) = 10$$
 and $f(4) = -2$

Ex:
$$f(2) = 8$$
 and $f(4) = -2$

Ex: Your gym membership costs \$33 per month after an initial membership fee. You paid a total of \$228 after 6 months. Write an equation for the total cost as a function of the number attended. Then find the total cost for 9 months.



Ex: For science class you need to know the Celsius equivalent of a room temperature of 70° Fahrenheit. To estimate, you use the facts that 32° Fahrenheit is equivalent to $^{\circ}$ OC and that 212° F is equivalent to 100° C. Write an equation to represent degrees Celsius, C, based on degrees Fahrenheit, F.