Algebra I Notes Section 4.2 Write Linear Equations in Slope-Intercept Form				
 How to write an equal How to use the slope 	ation of a line given slope a ation of a line given two po formula to find the slope and the slope-intercept fo	pints on the line. of a line.		
VOCABULARY				
Slope-Intercept Form:				
Slope:	Y-intercept:			
EXAMPLE 1 Write an equation of the line that passes through the given point and has the following slope.				
a) (-1, 3) and m = -4	b) (6, 3) and m = -2	c) (-2, 4) and m = 0		

EXAMPLE 2 Write an equation of the line that passes through the following 2 points.			
a) (-2, 5) and (2, -1) b) (3, 0) and (2, -4) c) (2, 3) and (2, -7)		c) (2, 3) and (2, -7)	
EXAMPLE 3 Find the furth $f(-4) = -7$.	nction that has the v	values f(4) = 9 and	

EXAMPLE 4 Your gym membership costs \$33 per month after an initial membership fee. You paid a total of \$228 after 6 months. Write and equation that gives the total cost as a function of the length of your gym membership (in months). Find the total cost after 9 months.

EXAMPLE 5

In BMX racing, racers purchase a one year membership to a track. They also pay an entry fee for each race at that track. One racer paid a total of \$125 after 5 races. A second racer paid a total of \$170 after 8 races. How much does the track membership cost? What is the entry fee per race?