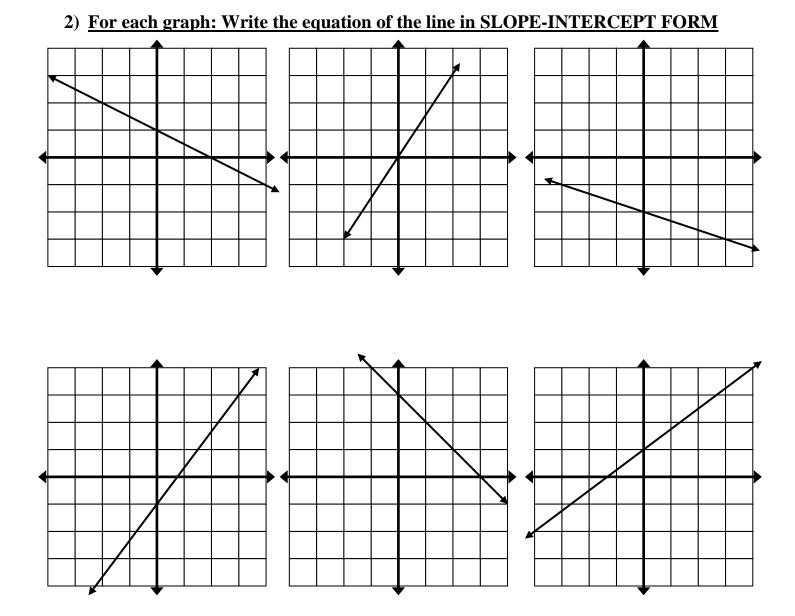
Slope Intercept Form Worksheet: CC Math I Standards Name: _____

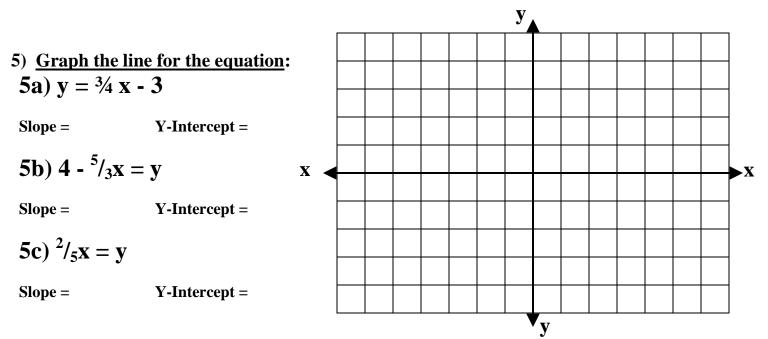
1) <u>Find the slope of the line through each pair of points.</u> $Slope = \frac{y_2 - y_1}{x_2 - x_1}$ a. (8, -7) and (5, -3). b. (-5, 9) and (5, 11). c. (-8, -4) and (-4, -9).



3) <u>In each linear equation, identify the slope (m) and the y-intercept (b)</u> a. y = 4x - 5b. $y = 11 + \frac{2}{3}x$ c. $y = \frac{2}{3} - x$ d. $6 - \frac{9}{2}x = y$ f. $-\frac{5}{4} - \frac{2}{7}x = y$ 4) Find the equation of the line in slope-intercept form (y = mx + b)a. Slope of 2 and yintercept of -7 d. $m = -\frac{4}{7}$ through (14, 3) g. m = -1 and (9, 4)

b. b = 4 and m = -5 e. (-5, 6) with slope = 3 h. (4, -6) and no slope

c. Slope =
$$\frac{3}{5}$$
 and (0, -2). f. Slope = $\frac{2}{3}$ through (3, 4) i. Slope = -7 and (-3, 16)



<u>Word Problem #1:</u> At the car rental company, you must play a flat rate of \$130 and then a daily fee of \$17 per day. Write a linear equation to describe the total cost, y, of renting the car for x days. What is the cost of renting a car for 9 days with this company?

<u>Word Problem #2:</u> A membership to the gym costs \$25 per person in 1995. The membership cost has increased by an average of \$6 per person for each year since 1995. Write a linear equation for the cost of a gym membership for one person since 1995. What is the cost of a gym membership in 2009?