

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

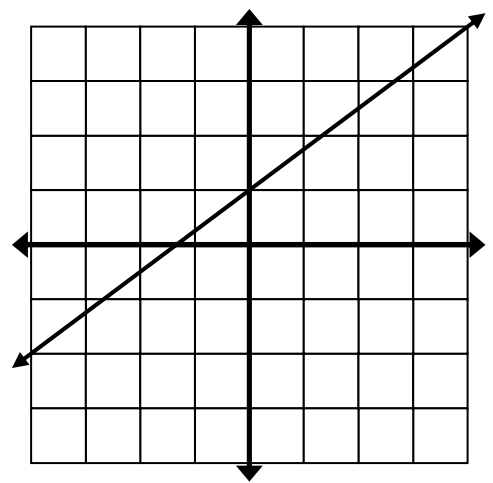
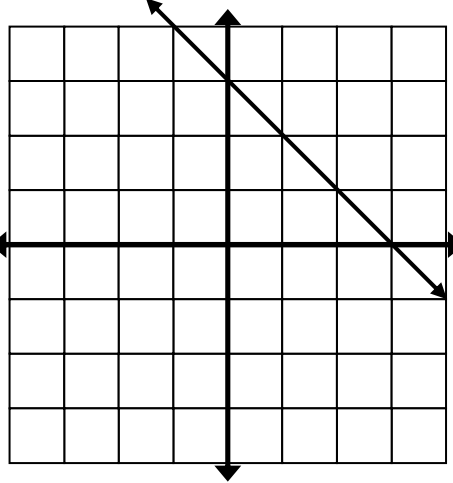
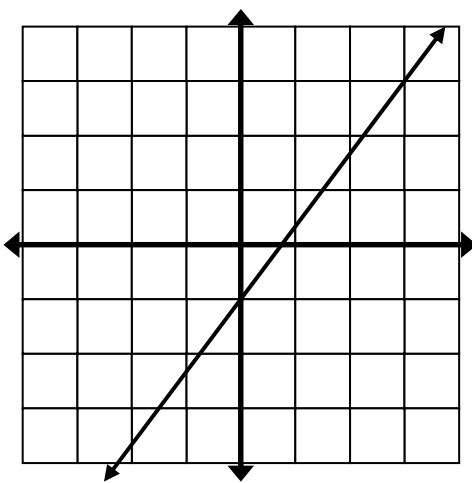
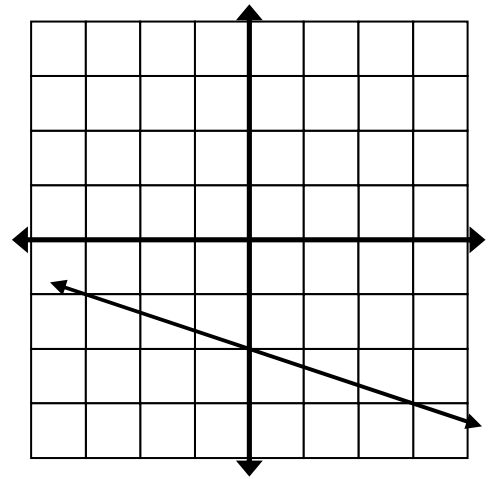
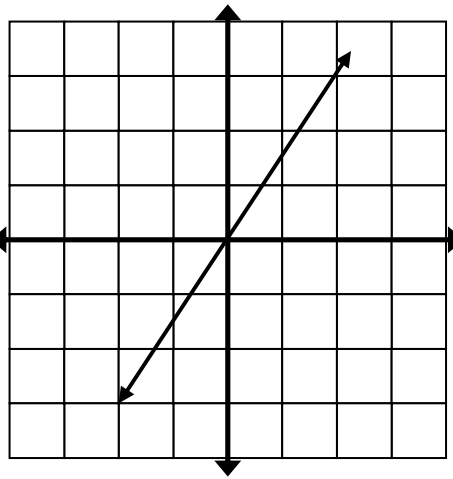
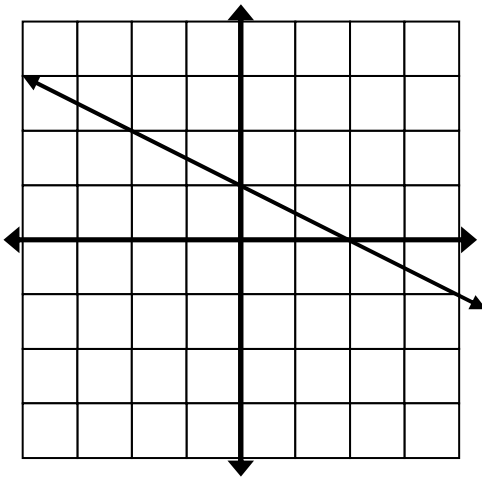
1) **Find the slope of the line through each pair of points.** $Slope = \frac{y_2 - y_1}{x_2 - x_1}$

a. (8, -7) and (5, -3).

b. (-5, 9) and (5, 11).

c. (-8, -4) and (-4, -9).

2) **For each graph: Write the equation of the line in SLOPE-INTERCEPT FORM**



3) **In each linear equation, identify the slope (m) and the y-intercept (b)**

a. $y = 4x - 5$

c. $y = \frac{2}{3} - x$

e. $y = \frac{5}{2}x - \frac{19}{8}$

b. $y = 11 + \frac{2}{3}x$

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 y-intercept 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)

5) Graph the line for the equation:

5a) $y = \frac{3}{4}x - 3$

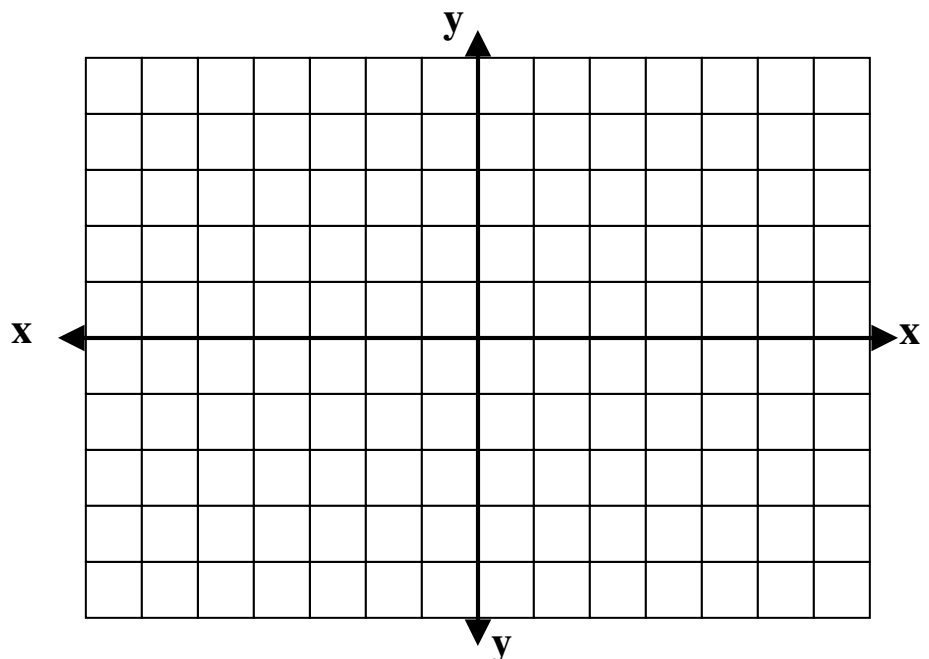
Slope = Y-Intercept =

5b) $4 - \frac{5}{3}x = y$

Slope = Y-Intercept =

5c) $\frac{2}{5}x = y$

Slope = Y-Intercept =



Word Problem #1: At the car rental company, you must pay 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?

Word Problem #2: 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?