Slope Intercept Form Worksheet: CC Math I Standards Name: $\qquad$

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. $y=4 x-5$
b. $y=11+\frac{2}{3} x$
c. $y=\frac{2}{3}-x$
d. $6-\frac{9}{2} x=y$
e. $y=\frac{5}{2} x-\frac{19}{8}$
f. $-\frac{5}{4}-\frac{2}{7} x=y$
4) Find the equation of the line in slope-intercept form $(\mathbf{y}=\mathbf{m x}+\mathrm{b})$
a. Slope of 2 and $y$ -
d. $\mathrm{m}=-{ }^{4} / 7$ through $(14,3)$
g. $m=-1$ and $(9,4)$ intercept of $\mathbf{- 7}$
b. $b=4$ and $m=-5$
e. $(-5,6)$ with slope $=3$
h. (4, -6) and no slope
c. Slope $=3 / 5$ and (0, -2).
f. Slope $=2 / 3$ through $(3,4)$
i. $\quad$ Slope $=-7$ and $(-3,16)$
5) Graph the line for the equation:

5a) $y=3 / 4 x-3$
Slope $=\quad$ Y-Intercept $=$
5b) $4-5 / 3 x=y$
Slope $=\quad$ Y-Intercept $=$
5c) ${ }^{2} / 5 x=y$
Slope $=$
$\mathbf{Y}$-Intercept $=$


Word Problem \#1: 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, $\mathbf{y}$, 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?

