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Practice Assignment
Date:
Block: $\qquad$

## Review

1. Solve the equation for $x: 6 x+11=-2 x-5 \quad$ 2. Solve for $y: 4 x-2 y=12$

Directions: Write the equation of the line given the slope and a point on the line in both slope intercept form. Then graph.

$$
\text { Slope Intercept Form: } y=m x+b \quad m=\text { slope } \quad b=y \text {-intercept }
$$

Point Slope Form: $y-y_{1}=m\left(x-x_{1}\right)$
3. $(1,2)$, slope $=3$

$\mathrm{m}=$ $\qquad$ $b=$ $\qquad$
Slope Intercept Equation: $\qquad$
5. $(3,-1)$, slope $=-1$

(3, 1 ), slope -1
4. $(-2,5)$, slope $=-4$

$\mathrm{m}=$ $\qquad$ $b=$ $\qquad$
Slope Intercept Equation: $\qquad$
6. $(4,1)$, slope $=1 / 2$

$\mathrm{m}=$ $\qquad$ $b=$ $\qquad$ $\mathrm{m}=$ $\qquad$ $b=$ $\qquad$

Slope Intercept Equation: $\qquad$ Slope Intercept Equation: $\qquad$
7. Nick is given $\$ 50$ to spend on a vacation. He decides to spend $\$ 5$ a day. The amount Nick has left and the number of days are related.
a. Complete the following (some may need to be calculated)

Independent Quantity:
Dependent Quantity:
Slope:
Y-intercept:
Point(s):
Equation:
b. When will Nick have $\$ 15$ left?
8. Julio plans a diet to gain 0.2 kg a day. After 14 days he weighs 40 kg . The number days he diets and his weight are related.
a. Complete the following (some may need to be calculated)

Independent Quantity:
Dependent Quantity:
Slope:
Y-intercept:
Point(s):
Equation:
b. When will Julio weigh 50 kg ?
9. A plane loses altitude at the rate of 5 meters per second. It begins with an altitude of 8500 meters. The plane's altitude is a function of the number of seconds that pass.
a. Complete the following (some may need to be calculated)

Independent Quantity:
Dependent Quantity:
Slope:
Y-intercept:
Point(s):
Equation:
b. When will the plane land (hint: what is the altitude when the plane lands?)

