

Unit 4 Quiz #1 Study Guide

Writing Equations in Slope-Intercept Form



Name: _____

Objective: Write an equation in slope-intercept form given the slope and y-intercept.

1. $m = \frac{2}{3}$ and $b = -2$

2. Slope = $\frac{-1}{6}$ and y-intercept (0,4)

Objective: Write an equation in slope-intercept form given the slope and a point that goes through the line.

3. Slope = -5 and point (1, -4)

4. Slope = $\frac{1}{2}$ and point (-2, -6)

Objective: Write an equation in slope-intercept form given two points that go through the line.

5. (6, 1) and (0, -2)

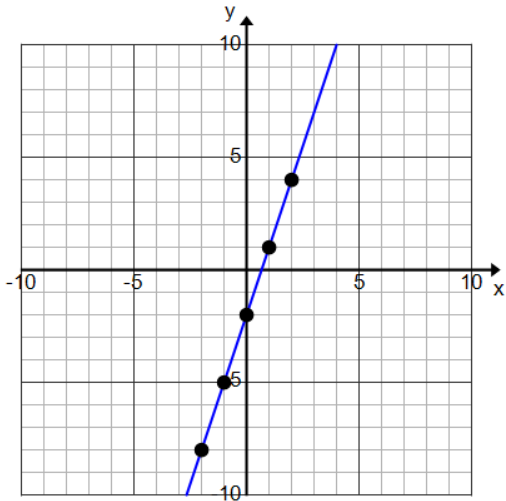
6. x-intercept 4 and y-intercept -10

7. (2, -10) and (4, -4)

8. $f(-2) = 4$ and $f(1) = 2$

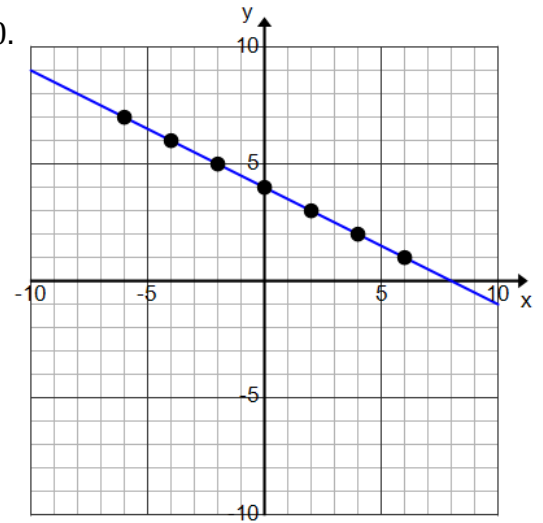
Objective: Write an equation in slope-intercept form given the graph of the line.

9.



Equation: _____

10.



Equation: _____

Objective: Apply slope-intercept form with real world application problems.

11. Stella's one of the best babysitters in Hinsdale. For babysitting, Stella charges a flat fee of \$3.00 plus \$9.00 per hour.

a. Write an equation in slope-intercept form that models this situation.



b. Define the variables (x and y).

c. How much did Stella earn if she babysat for 4 hours?

d. How many hours did Stella babysit for if she made \$79.50.