

**Module 2 Topic 2 - Lessons 3-6 Review****Essential Standard: I can identify the slope of given scenarios and interpret its meaning.**

1. Geoff is training for a charity bike ride. He rides **49 miles** in **3.5 hours**. Complete the following questions.

a. What are the Independent and Dependent Variables? (2 pts)

Independent variable (x) - \_\_\_\_\_

Dependent variable (y) - \_\_\_\_\_

b. Complete the table and list the two ordered pairs. (2 pts)


Two ordered pairs: (\_\_\_\_\_, \_\_\_\_\_) (\_\_\_\_\_, \_\_\_\_\_)

c. Calculate the slope and explain what it means in the context of this problem. (4 pts)

Slope = \_\_\_\_\_

What does it mean? \_\_\_\_\_

\_\_\_\_\_.

2. A taxi charges a pick-up fee of **\$2.75** before going any distance. Marie paid **\$9** for **5-mile** ride. What is the rate of cost per mile?

a. List the two ordered pairs. (2 pts)

Two ordered pairs: \_\_\_\_\_

b. Calculate the slope and explain what it means in the context of this problem. (4 pts)

Slope = \_\_\_\_\_

What does it mean? \_\_\_\_\_

\_\_\_\_\_.

c. What is the y-intercept and what does it mean in the context of this problem? (2 pts) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_.

**Essential Standard: I can find the slope from two points and a table.**

3-6. Find the slope for the following questions. (2 pts each)

3. (-2, 6) and (5, -8)

Slope = \_\_\_\_\_

4. (4, 9) and (4, -1)

Slope = \_\_\_\_\_

5.

x	y
0	-7
12	-7
-4	-7

Slope = \_\_\_\_\_

6.

x	y
0	-8
-12	-5
4	-9

Slope = \_\_\_\_\_

**Essential Standard: I can find write linear equations in slope-intercept form.**

7-8. Write the slope-intercept form for the line passing through the given points. (4 pts each)

7. (3, 5) and (-1, -7)

Slope (m) = \_\_\_\_\_

y-intercept (b) = \_\_\_\_\_

Equation: \_\_\_\_\_

8. (-4, 3) and (-4, 8)

Slope (m) = \_\_\_\_\_

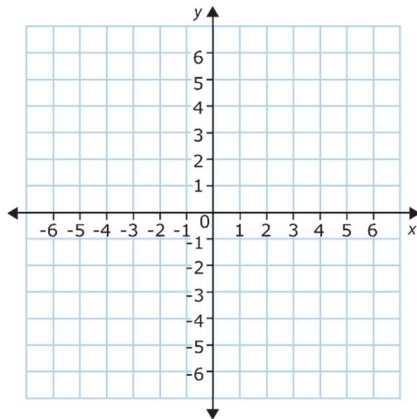
y-intercept (b) = \_\_\_\_\_

Equation: \_\_\_\_\_

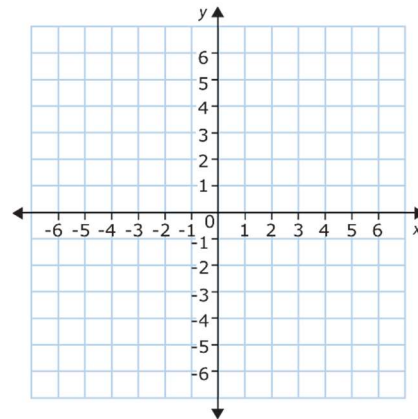
Essential Standard: I can graph equations written in slope-intercept form.

9-12. Graph the following linear equations. (2 pts each)

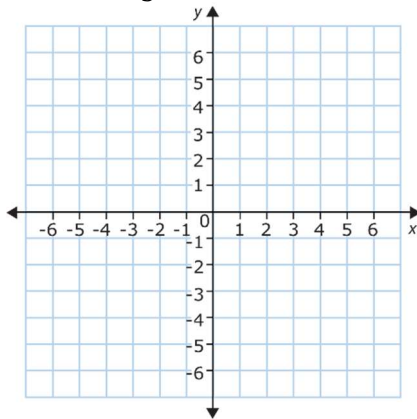
9.  $y = -\frac{3}{4}x - 1$



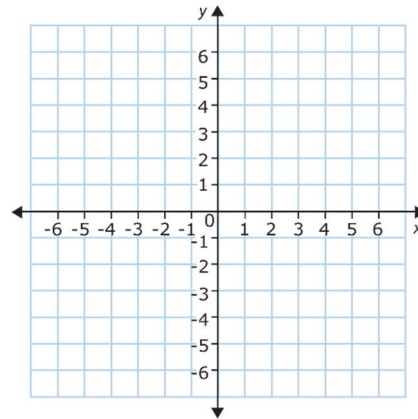
10.  $x = -2$



11.  $y = \frac{2}{3}x + 6$



12.  $y = 5$



13. Charlotte and Tanner are filling up their community pool for swimming. The pool already has **3 feet** of water and the filling rate is **3 feet for every 2 hour**. Write an equation for this situation and graph the equation.

Let X = \_\_\_\_\_

Let Y = \_\_\_\_\_

Slope (m) = \_\_\_\_\_

y-intercept (b) = \_\_\_\_\_

Equation: \_\_\_\_\_

