Name **Key**

Date _____

Practice
For use after Lesson 5.5

$$slope = \frac{rise}{run}$$

Find the slope of the line.

1.

Points: (2, 4), (0, 0)

$$\frac{y}{x} = \frac{4}{2} = \boxed{2}$$

2.

Points: (4, 4), (1, 1)

$$\frac{3}{3} = \boxed{1}$$

3.

Points: (1, 3), (-3, -2)
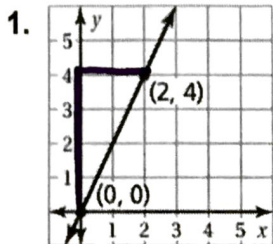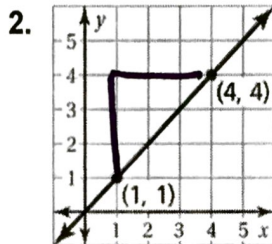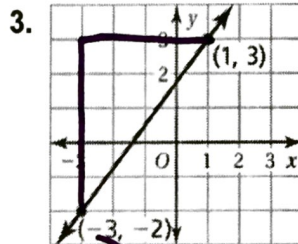
$$\boxed{\frac{5}{4}}$$

Graph the data. Then find and interpret the slope of the line through the points.

4.

Minutes, x	0	1	3	5
Pages, y	0	1.5	4.5	7.5

5.

Miles, x	0	1	2	3
Calories, y	0	135	270	405

PAGES / Minutes

slope = $\frac{1.5}{1} = \boxed{1.5}$

1.5 pages per minute
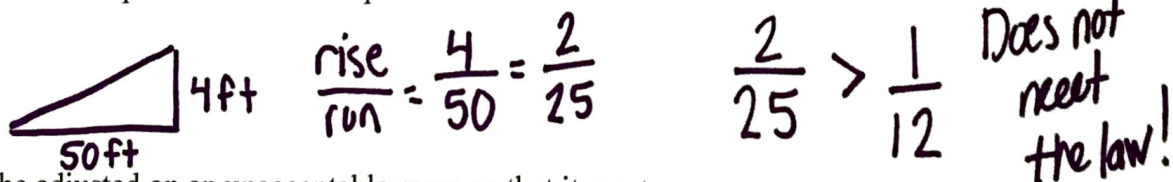

CALORIES / Miles
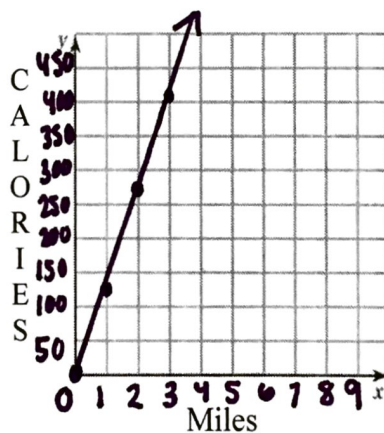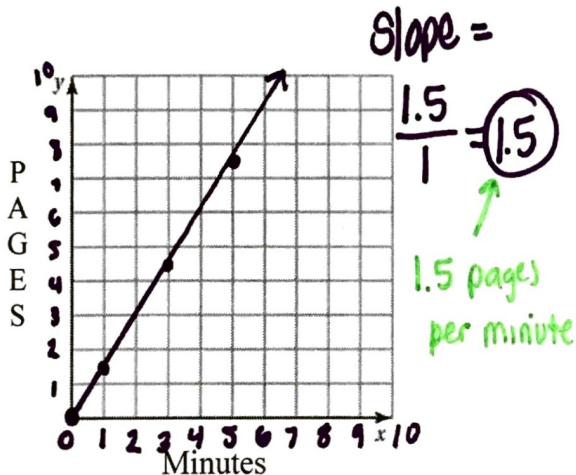
slope = $\frac{135}{1} = \boxed{135}$

You burn 135 cal. in 1 mile

6. By law, the maximum slope of a wheelchair ramp is $\frac{1}{12}$.

a. A ramp is designed that is 4 feet high and has a horizontal length of 50 feet. Does this ramp meet the law? Explain.

 4 ft, 50 ft

$$\frac{rise}{run} = \frac{4}{50} = \frac{2}{25}$$

$$\frac{2}{25} > \frac{1}{12}$$ Does not meet the law!

b. What could be adjusted on an unacceptable ramp so that it meets the law?

You could **lower** the height of the ramp and this would help with how steep it is!