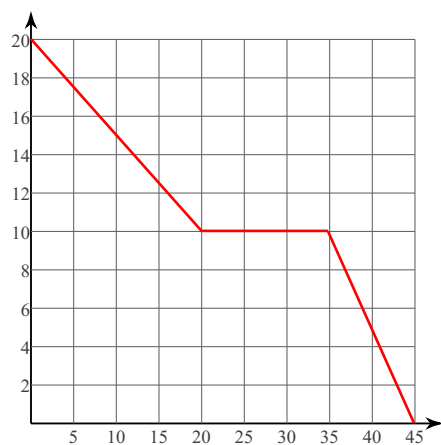


## Homework 8.1

Max rode his motorcycle home from work. The graph below shows Max's distance from home over time.

Max's Motorcycle Ride Home

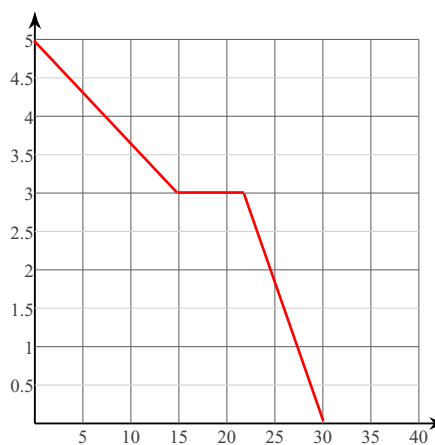


Distance (miles)

Time (minutes)

Sam rode his skateboard to school. The graph below shows Sam's distance from school over time.

Sam's Skateboard Ride to School



Time (minutes)

3) On what time interval is Max traveling at 30 mph?

4) On what time interval is Sam traveling at 8 mph?

5) On what time interval is Max stopped?

6) On what time interval is Sam stopped?

7) On what time interval is Max traveling the fastest?

8) On what time interval is Sam traveling the fastest?

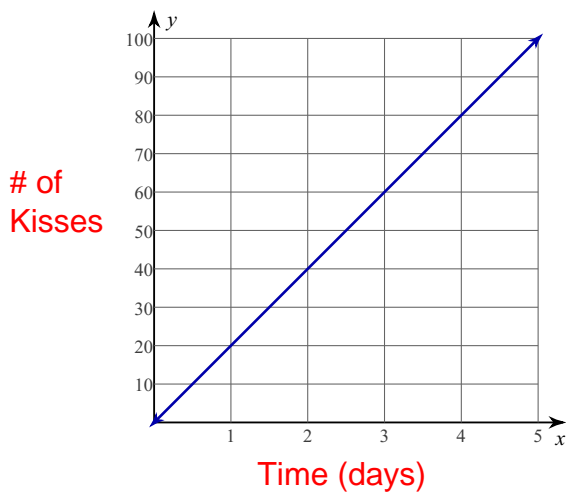
**Find the slope of the line through each pair of points.**

9)  $(8, 16), (-6, -14)$

10)  $(4, -5), (-15, 10)$

The graph below represents the total number of times a certain teacher eats a Hershy's Kiss over a 5 - day period.

Hershy's Kisses Eaten



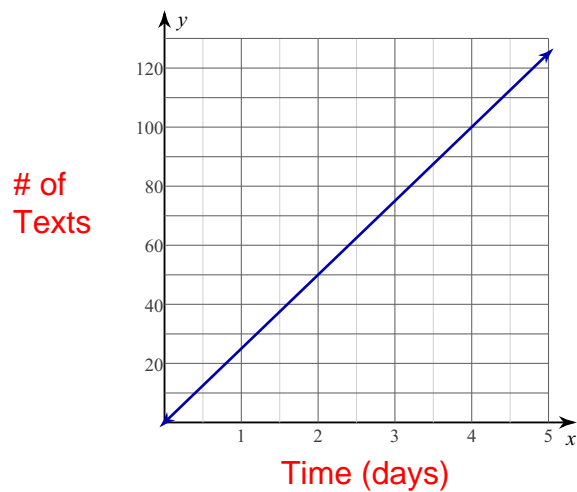
- 13) What is the slope of this line segment?  
Include the appropriate units in your answer.

- 15) Write an equation that represents the total number of Hershy Kisses,  $H$ , are eaten after,  $d$ , days.

- 17) If this trend continues, how many Hershy Kisses will this teacher eat in 15 days?

The graph below represents the total number of times a text message is sent by a teenage girl over a 5 - day period.

Text messages Sent



- 14) What is the slope of this line segment?  
Include the appropriate units in your answer.

- 16) Write an equation that represents the total number of text messages,  $T$ , are sent after,  $d$ , days.

- 18) If this trend continues, how many text messages will be sent in 12 days?

## Answers to Homework 8.1

- 5) 20 minutes to 35 minutes  
8) 22 minutes to 30 minutes
- 3) The first 20 minutes  
6) 15 minutes to 22 minutes  
9)  $\frac{15}{7}$
- 4) The first 15 minutes  
7) 35 minutes to 45 minutes  
10)  $-\frac{15}{19}$
- 13)  $\frac{20}{1}$  Hershy Kisses per Day  
15)  $H = 20d$   
16)  $T = 25d$
- 14)  $\frac{25}{1}$  Text Messges per Day  
17) 300 Hershy Kisses  
18) 300 Text Messages