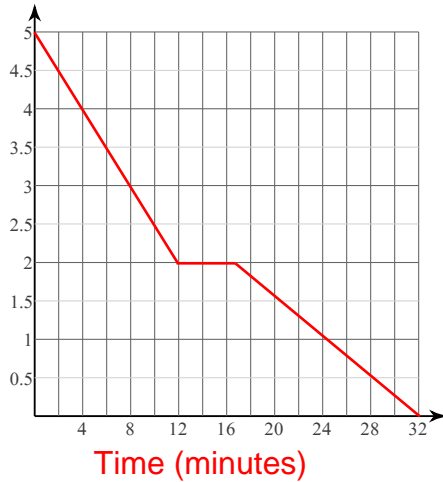


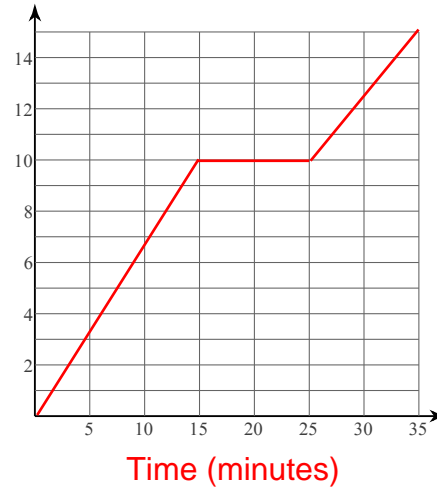
Homework 8.3

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- 1) Sally rode her bike home from school. The graph below shows Sally's distance from home over time.

Sally's Bike Ride Home

- 2) Patricia drove her car to work. The graph below shows Patricia's distance from home over time.

Patricia's Drive to SchoolDistance
(miles)

- 3) On what time interval is Sally traveling at 15 mph?
- 4) On what time interval is Patricia traveling at 40 mph?
- 5) On what time interval is Sally stopped?
- 6) On what time interval is Patricia stopped?
- 7) On what time interval is Sally traveling the fastest?
- 8) On what time interval is Patricia traveling the fastest?

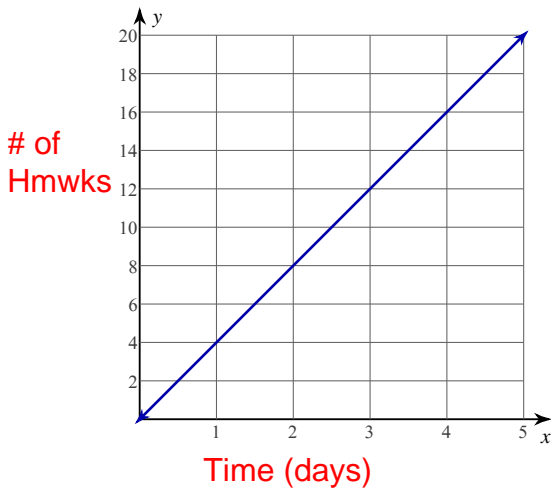
Find the slope of the line through each pair of points.

9) $(-10, 9), (16, -7)$

10) $(9, 17), (18, -9)$

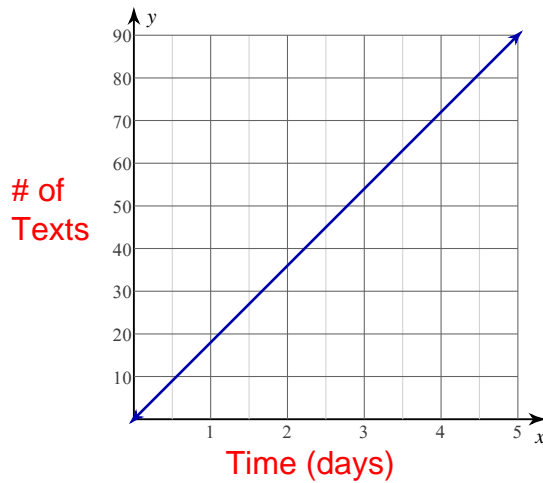
- 11) The graph below represents the total number of times a student is given a homework assignment over a 5 - day period.

Homework Assigned



- 12) The graph below represents the total number of times a text message is received by a teenage boy over a 5 - day period.

Text messages Received



- 13) What is the slope of this line segment.
Include the appropriate units in your answer.
- 14) 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 Homework Assignments, H , are given after, d , days.
- 16) Write an equation that represents the total number of text messages, T , are received after, d , days.
- 17) If this trend continues, how many homework assignments will this student be given 15 days?
- 18) If this trend continues, how many text messages will be received in 10 days?

Answers to Homework 8.3

- 5) 12 minutes to 17 minutes
8) During the first 15 minutes
- 3) The first 12 minutes
6) 15 minutes to 25 minutes
9) $-\frac{8}{13}$
- 4) The first 15 minutes
7) During the first 12 minutes
10) $-\frac{26}{9}$
- 13) $\frac{4}{1}$ Homework Assignments per Day
- 14) $\frac{18}{1}$ Text Messges per Day
17) 60 homeowrk assignments
- 15) $H = 4d$
18) 180 Text Messages
- 16) $T = 18d$