

Homework 23.1

Find each product.

1) $(6p + 5)(-8p - 8)$

2) $(-7x - 7)(8x + 5)$

3) $(-6m + 8)(-8m + 6)$

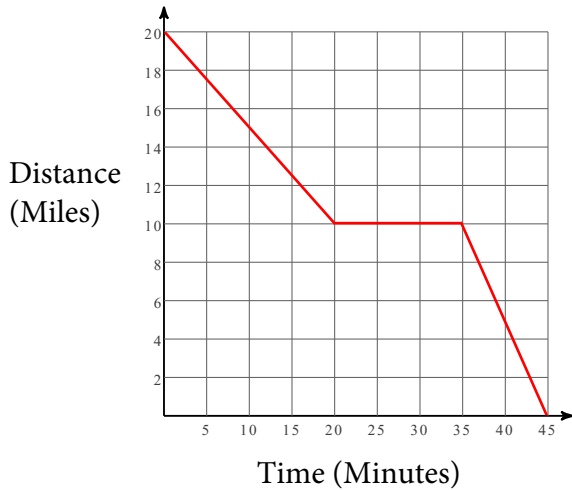
4) $(7m - 4)^2$

5) $(2n + 7)^2$

6) $(6x - 1)^2$

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

Max's Motorcycle Ride Home

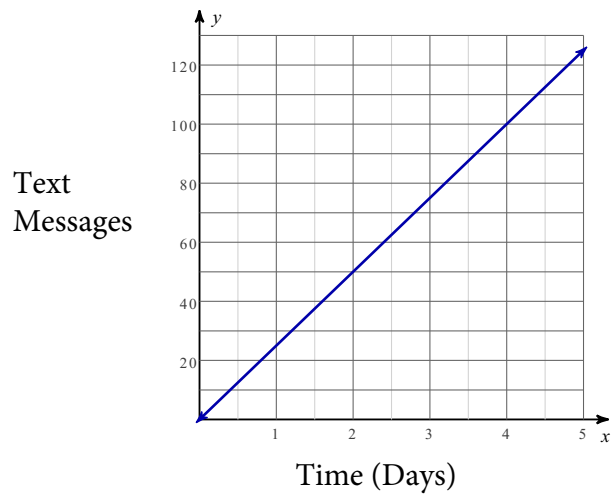


7) On what time interval is Max stopped?

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

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



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

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

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

Answers to Homework 23.1

1) $-48p^2 - 88p - 40$ 2) $-56x^2 - 91x - 35$ 3) $48m^2 - 100m + 48$ 4) $49m^2 - 56m + 16$
5) $4n^2 + 28n + 49$ 6) $36x^2 - 12x + 1$

7) 20 minutes to 35 minutes 8) 35 minutes to 45 minutes 9) $\frac{25}{1}$ Text Messages per Day

10) $T = 25d$ 11) 240 Text Messages

