



- b) 60 miles
- c) Point of Intersection

15)

- a) (500, 85)
- b) The intersection point (500, 85) means that both companies would charge you the same amount (\$85) to drive 500 miles.
- c) U-Drive; U-Drive is cheaper for persons driving more than 500 miles.

**Skill and Review**

17)

- a) Drive 0 miles—(set  $d$  equal to zero in the Cost formula): you get \$8.00.
- b) Pick any two points on the graph and use the slope formula to calculate the slope (rate of change) between them:

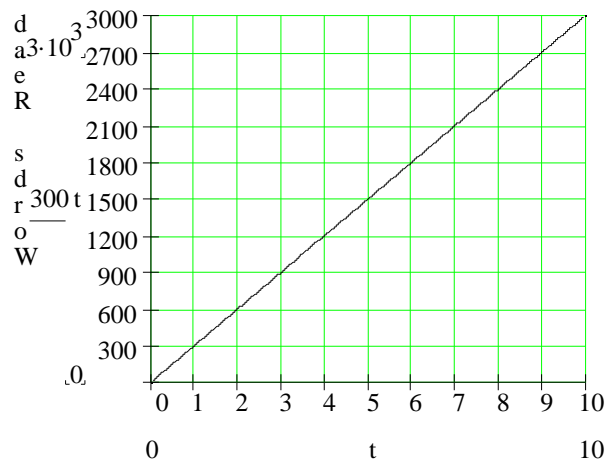
$$m = \frac{\$10.50 - \$8.00}{10 \text{ mi} - 0 \text{ mi}} = \frac{\$2.50}{10 \text{ mi}} = \frac{\$0.25}{\text{mi}}$$

19)

a)

Number of Minutes	Words Read
0	0
1	300
2	600
3	900
4	1200
5	1500

b)



c)  $w = 300t$ , where  $w$  is the number of words read after  $t$  minutes.