

# CHAPTER 6:

## Sinusoidal Functions

**NOTE:** Answers are given to the same number of decimal points as the numbers in each question.

### Getting Started, p. 344

1. a)  $x$  represents the number of times the price is reduced by \$2. The factor  $(30 - 2x)$  represents the price of one T-shirt in terms of the number of times the price is reduced; the factor  $(100 + 20x)$  represents the total number of T-shirts sold in terms of the number of times the price is reduced.

b) Since the revenue generated by T-shirt sales can be modelled by the function

$$R(x) = (30 - 2x)(100 + 20x), \text{ for } R(x)$$

to be equal to 0, one or both of the factors must be equal to 0.  $100 + 20x$  can only be equal to 0 if  $x$  is negative, and this is not possible. Therefore,  $30 - 2x = 0$ .

$$-2x = -30$$

$$x = 15 \text{ times}$$

c) Create a table with two columns. In the first column put the number of price reductions.

In the second column, put the corresponding revenue. Continue until the revenue starts to decrease.

Number of Price Reductions	Revenue (dollars) $R(x) = (30 - 2x)(100 + 20x)$
0	3000
1	3360
2	3640
3	3840
4	3960
5	4000
6	3960

The price will have to be dropped 5 times to reach the maximum revenue.

d) From the table created in part c, it's apparent that the maximum revenue is \$4000.

e) The price of a T-shirt is equal to  $30 - 2x$ , so to obtain the maximum revenue, the T-shirts will sell for  $30 - 2(5)$  or 20 dollars.

f) The number of T-shirts sold is equal to  $100 + 20x$ , so to obtain the maximum revenue,  $100 + 20(5)$  or 200 T-shirts will be sold.

2. a)



The puck travelled 180 cm to the opposite end of the table in the first 0.25 s and 180 cm back in the next 0.25 s for a total distance of 360 cm.

b) The puck was farthest away from where it was shot when it was 180 cm away, and this occurred after 0.25 s.

c) The puck travelled 180 cm in the first 0.25 s.

$$\frac{180 \text{ cm}}{0.25 \text{ s}} = \frac{720 \text{ cm}}{1 \text{ s}} = 720 \text{ cm/s}$$

d) The domain is all possible values of the time, or  $t$ , while the range is all possible values of the distance, or  $d$ . Therefore, the domain is  $\{t \in \mathbf{R} \mid 0 \leq t \leq 0.5\}$ , and the range is  $\{d \in \mathbf{R} \mid 0 \leq d \leq 180\}$ .

3. a)



Within the larger triangle there exist two smaller right triangles. The smaller right triangle with a hypotenuse of 15 cm has the measurements of two angles given:  $40^\circ$  and  $90^\circ$ . Therefore, the measurement of the unknown angle within that triangle is  $50^\circ$ . With that angle

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