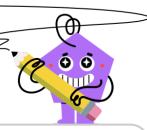# Quadratic Equation Word Problem To Demand Function - Revenue with Price Change

Name

1

A lemonade stand sells 50 drinks for $7 each. For every $0.07 increase in price 1 fewer will be sold.

What is the volume of sales as a function of price?

A
$$V(p) = -20.00p + 64.29$$

B
$$V(p) = -14.29p + 121.43$$

2

A lemonade stand sells 80 drinks for $7 each. For every $0.09 increase in price 1 fewer will be sold.

What is the volume of sales as a function of price?

A
$$V(p) = -12.50p + 87.78$$

B
$$V(p) = -12.50p + 91.11$$

3

A movie theater sells 30 tickets for $7 each. For every $0.05 increase in price 1 fewer will be sold.

What is the volume of sales as a function of price?

A
$$V(p) = -300.00p + 50.00$$

B
$$V(p) = -33.33p + 50.00$$

C
$$V(p) = -14.29p + 90.00$$

4

A lemonade stand sells 40 drinks for $6 each. For every $0.03 increase in price 1 fewer will be sold.

What is the volume of sales as a function of price?

A
$$V(p) = -16.67p + 173.33$$

B
$$V(p) = -400.00p + 73.33$$

C
$$V(p) = -25.00p + 73.33$$

5

A movie theater sells 80 tickets for $5 each. For every $0.07 increase in price 1 fewer will be sold.

What is the volume of sales as a function of price?

A
$$V(p) = -12.50p + 81.43$$

B
$$V(p) = -12.50p + 94.29$$

6

A lemonade stand sells 80 drinks for $7 each. For every $0.06 increase in price 1 fewer will be sold.

What is the volume of sales as a function of price?

A
$$V(p) = -12.50p + 126.67$$

B
$$V(p) = -12.50p + 96.67$$

C
$$V(p) = -800.00p + 96.67$$

7

A lemonade stand sells 110 drinks for $7 each. For every $0.08 increase in price 1 fewer will be sold.

What is the volume of sales as a function of price?

A
$$V(p) = -9.09p + 122.50$$

B
$$V(p) = -14.29p + 247.50$$

C
$$V(p) = -1100.00p + 122.50$$

8

A movie theater sells 40 tickets for $5 each. For every $0.07 increase in price 1 fewer will be sold.

What is the volume of sales as a function of price?

A
$$V(p) = -25.00p + 54.29$$

B
$$V(p) = -400.00p + 54.29$$

C
$$V(p) = -20.00p + 97.14$$