



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

1

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

A lemonade stand sells 30 drinks for \$7 each. For every \$0.08 increase in price 1 fewer will be sold.

$$A \quad V(p) = -33.33p + 42.50$$

$$B \quad V(p) = -300.00p + 42.50$$

$$C \quad V(p) = -14.29p + 67.50$$

2

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

A movie theater sells 80 tickets for \$6 each. For every \$0.03 increase in price 1 fewer will be sold.

$$A \quad V(p) = -12.50p + 113.33$$

$$B \quad V(p) = -12.50p + 210.00$$

3

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

A movie theater sells 30 tickets for \$4 each. For every \$0.04 increase in price 1 fewer will be sold.

$$A \quad V(p) = -33.33p + 55.00$$

$$B \quad V(p) = -25.00p + 105.00$$

4

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

A movie theater sells 100 tickets for \$11 each. For every \$0.04 increase in price 1 fewer will be sold.

$$A \quad V(p) = -1000.00p + 125.00$$

$$B \quad V(p) = -10.00p + 125.00$$

$$C \quad V(p) = -10.00p + 285.00$$

5

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

A lemonade stand sells 30 drinks for \$4 each. For every \$0.05 increase in price 1 fewer will be sold.

$$A \quad V(p) = -33.33p + 90.00$$

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

$$C \quad V(p) = -300.00p + 50.00$$

6

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

A movie theater sells 40 tickets for \$4 each. For every \$0.07 increase in price 1 fewer will be sold.

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

$$B \quad V(p) = -25.00p + 97.14$$

$$C \quad V(p) = -400.00p + 54.29$$

7

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

A movie theater sells 110 tickets for \$11 each. For every \$0.03 increase in price 1 fewer will be sold.

$$A \quad V(p) = -9.09p + 376.67$$

$$B \quad V(p) = -9.09p + 143.33$$

$$C \quad V(p) = -1100.00p + 143.33$$

8

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

A lemonade stand sells 60 drinks for \$9 each. For every \$0.10 increase in price 1 fewer will be sold.

$$A \quad V(p) = -16.67p + 70.00$$

$$B \quad V(p) = -16.67p + 100.00$$

$$C \quad V(p) = -600.00p + 70.00$$