Name

Quadratic Equation Word Problem To Expression - Revenue with Price Change

1

A lemonade stand sells 90 drinks for $7 each. For every $0.06 increase in price 1 fewer will be sold.

What equation gives the revenue (volume x price) at a given price?

A $R(p) = p \cdot (-11.11p + 106.67)$

B $R(p) = p \cdot (-11.11p + 126.67)$

2

A movie theater sells 50 tickets for $9 each. For every $0.05 increase in price 1 fewer will be sold.

What equation gives the revenue (volume x price) at a given price?

A $R(p) = p \cdot (-20.00p + 190.00)$

B $R(p) = p \cdot (-11.11p + 150.00)$

C $R(p) = p \cdot (-20.00p + 70.00)$

3

A movie theater sells 100 tickets for $3 each. For every $0.10 increase in price 1 fewer will be sold.

What equation gives the revenue (volume x price) at a given price?

A $R(p) = p \cdot (-10.00p + 110.00)$

B $R(p) = p \cdot (-1000.00p + 110.00)$

C $R(p) = p \cdot (-10.00p + 40.00)$

4

A movie theater sells 90 tickets for $11 each. For every $0.09 increase in price 1 fewer will be sold.

What equation gives the revenue (volume x price) at a given price?

A $R(p) = p \cdot (-9.09p + 190.00)$

B $R(p) = p \cdot (-11.11p + 101.11)$

C $R(p) = p \cdot (-900.00p + 101.11)$

5

A movie theater sells 20 tickets for $8 each. For every $0.11 increase in price 1 fewer will be sold.

What equation gives the revenue (volume x price) at a given price?

A $R(p) = p \cdot (-12.50p + 38.18)$

B $R(p) = p \cdot (-50.00p + 29.09)$

C $R(p) = p \cdot (-200.00p + 29.09)$

6

A movie theater sells 80 tickets for $11 each. For every $0.06 increase in price 1 fewer will be sold.

What equation gives the revenue (volume x price) at a given price?

A $R(p) = p \cdot (-800.00p + 96.67)$

B $R(p) = p \cdot (-12.50p + 96.67)$

C $R(p) = p \cdot (-12.50p + 193.33)$

7

A lemonade stand sells 40 drinks for $6 each. For every $0.02 increase in price 1 fewer will be sold.

What equation gives the revenue (volume x price) at a given price?

A $R(p) = p \cdot (-25.00p + 310.00)$

B $R(p) = p \cdot (-25.00p + 90.00)$

C $R(p) = p \cdot (-16.67p + 240.00)$

8

A movie theater sells 40 tickets for $4 each. For every $0.11 increase in price 1 fewer will be sold.

What equation gives the revenue (volume x price) at a given price?

A $R(p) = p \cdot (-25.00p + 49.09)$

B $R(p) = p \cdot (-25.00p + 76.36)$