Name

Quadratic Equation Word Problem To Expression (Standard Form) - Revenue with Price Change

1

A lemonade stand sells 110 drinks for $2 each. For every $0.04 increase in price 1 fewer will be sold.

What quadratic equation, in standard form, comes from calculating the revenue based on price?

A $R(p) = -13.09p^2 + 163.00p$

B $R(p) = -8.09p^2 + 160.00p - 4.00$

C $R(p) = -9.09p^2 + 160.00p$

2

A movie theater sells 110 tickets for $5 each. For every $0.06 increase in price 1 fewer will be sold.

What quadratic equation, in standard form, comes from calculating the revenue based on price?

A $R(p) = -9.09p^2 + 192.33p - 1.00$

B $R(p) = -11.09p^2 + 193.33p - 5.00$

C $R(p) = -9.09p^2 + 193.33p$

3

A lemonade stand sells 90 drinks for $6 each. For every $0.08 increase in price 1 fewer will be sold.

What quadratic equation, in standard form, comes from calculating the revenue based on price?

A $R(p) = -11.11p^2 + 164.00p - 3.00$

B $R(p) = -16.11p^2 + 165.00p + 3.00$

C $R(p) = -11.11p^2 + 165.00p$

4

A lemonade stand sells 60 drinks for $7 each. For every $0.02 increase in price 1 fewer will be sold.

What quadratic equation, in standard form, comes from calculating the revenue based on price?

A $R(p) = -16.67p^2 + 408.00p - 2.00$

B $R(p) = -16.67p^2 + 410.00p$

C $R(p) = -14.67p^2 + 408.00p$

5

A movie theater sells 70 tickets for $11 each. For every $0.07 increase in price 1 fewer will be sold.

What quadratic equation, in standard form, comes from calculating the revenue based on price?

A $R(p) = -14.29p^2 + 227.14p$

B $R(p) = -10.29p^2 + 232.14p$

C $R(p) = -13.29p^2 + 226.14p$

6

A movie theater sells 70 tickets for $9 each. For every $0.06 increase in price 1 fewer will be sold.

What quadratic equation, in standard form, comes from calculating the revenue based on price?

A $R(p) = -14.29p^2 + 220.00p$

B $R(p) = -14.29p^2 + 219.00p - 3.00$

C $R(p) = -10.29p^2 + 224.00p$

7

A lemonade stand sells 80 drinks for $10 each. For every $0.04 increase in price 1 fewer will be sold.

What quadratic equation, in standard form, comes from calculating the revenue based on price?

A $R(p) = -12.50p^2 + 329.00p - 4.00$

B $R(p) = -12.50p^2 + 329.00p + 3.00$

C $R(p) = -12.50p^2 + 330.00p$

8

A movie theater sells 30 tickets for $7 each. For every $0.06 increase in price 1 fewer will be sold.

What quadratic equation, in standard form, comes from calculating the revenue based on price?

A $R(p) = -33.33p^2 + 146.67p$

B $R(p) = -28.33p^2 + 143.67p$

C $R(p) = -33.33p^2 + 144.67p + 4.00$