



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

1

A movie theater sells 80 tickets for \$10 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
 $R(p) = -13.50p^2 + 222.86p - 2.00$

B
 $R(p) = -12.50p^2 + 222.86p$

A movie theater sells 80 tickets for \$8 each. For every \$0.09 increase in price 1 fewer will be sold.

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

A
 $R(p) = -12.50p^2 + 167.89p - 4.00$

B
 $R(p) = -12.50p^2 + 168.89p$

C
 $R(p) = -7.50p^2 + 165.89p$

3

A lemonade stand sells 50 drinks for \$3 each. For every \$0.03 increase in price 1 fewer will be sold.

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

A
 $R(p) = -20.00p^2 + 154.00p + 3.00$

B
 $R(p) = -20.00p^2 + 148.00p$

C
 $R(p) = -20.00p^2 + 150.00p$

4

A movie theater sells 60 tickets for \$7 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
 $R(p) = -13.67p^2 + 235.00p + 3.00$

B
 $R(p) = -16.67p^2 + 235.00p$

5

A movie theater sells 50 tickets for \$8 each. For every \$0.05 increase in price 1 fewer will be sold.

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

A
 $R(p) = -18.00p^2 + 210.00p - 1.00$

B
 $R(p) = -20.00p^2 + 210.00p - 1.00$

C
 $R(p) = -20.00p^2 + 210.00p$

6

A lemonade stand sells 30 drinks for \$8 each. For every \$0.11 increase in price 1 fewer will be sold.

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

A
 $R(p) = -31.33p^2 + 102.73p$

B
 $R(p) = -28.33p^2 + 106.73p$

C
 $R(p) = -33.33p^2 + 102.73p$

7

A lemonade stand sells 80 drinks for \$3 each. For every \$0.03 increase in price 1 fewer will be sold.

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

A
 $R(p) = -12.50p^2 + 180.00p$

B
 $R(p) = -12.50p^2 + 184.00p + 2.00$

C
 $R(p) = -15.50p^2 + 183.00p$

8

A movie theater sells 60 tickets for \$5 each. For every \$0.11 increase in price 1 fewer will be sold.

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

A
 $R(p) = -11.67p^2 + 104.45p$

B
 $R(p) = -16.67p^2 + 105.45p$

C
 $R(p) = -21.67p^2 + 105.45p + 1.00$