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Quadratic Equation Word Problem To Expression (Standard Form f(x)) - 3-Sided Rectangle

1

A parking lot that is a rectangle shape is enclosed by x meters of a wall and 21m of fencing.

What quadratic equation, in standard form, comes from calculating the area of the parking lot?

A $A(x) = 0.5x^2 + 9.5x$	B $A(x) = -0.5x^2 + 10.5x$
C $A(x) = 2.5x^2 + 15.5x$	

2

A parking lot that is a rectangle shape is enclosed by x meters of a wall and 15m of fencing.

What quadratic equation, in standard form, comes from calculating the area of the parking lot?

A $A(x) = 1.5x^2 + 3.5x$

B $A(x) = -0.5x^2 + 9.5x + 5$

C $A(x) = -0.5x^2 + 7.5x$

3

A rectangular garden is built along x meters of a wall using a total of 15m of fencing.

What quadratic equation, in standard form, comes from calculating the area of the garden?

A $A(x) = -0.5x^2 + 7.5x$

B $A(x) = -0.5x^2 + 9.5x - 5$

C $A(x) = -0.5x^2 + 2.5x - 2$

4

A rectangular garden is built along x meters of a wall using a total of 19m of fencing.

What quadratic equation, in standard form, comes from calculating the area of the garden?

A $A(x) = 3.5x^2 + 14.5x$

B $A(x) = -0.5x^2 + 9.5x$

C $A(x) = -1.5x^2 + 9.5x - 1$

5

A rectangular garden is built along x meters of a wall using a total of 23m of fencing.

What quadratic equation, in standard form, comes from calculating the area of the garden?

A $A(x) = 2.5x^2 + 14.5x$

B $A(x) = -1.5x^2 + 11.5x - 2$

C $A(x) = -0.5x^2 + 11.5x$

6

A rectangular garden is built along x meters of a wall using a total of 24m of fencing.

What quadratic equation, in standard form, comes from calculating the area of the garden?

A $A(x) = -0.5x^2 + 12x$	B $A(x) = -2.5x^2 + 10x$
C $A(x) = 4.5x^2 + 12x + 1$	

7

A parking lot that is a rectangle shape is enclosed by x meters of a wall and 22m of fencing.

What quadratic equation, in standard form, comes from calculating the area of the parking lot?

A $A(x) = 3.5x^2 + 11x - 3$	B $A(x) = -2.5x^2 + 11x$
C $A(x) = -0.5x^2 + 11x$	

8

A parking lot that is a rectangle shape is enclosed by x meters of a wall and 29m of fencing.

What quadratic equation, in standard form, comes from calculating the area of the parking lot?

A $A(x) = 4.5x^2 + 14.5x - 5$

B $A(x) = -0.5x^2 + 14.5x$

C $A(x) = -0.5x^2 + 15.5x + 1$

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