

mobius

Quadratic Equation Word Problem To Quadratic Solution Type - Volume from



Given this equal that Given this equal to Given this equal to Given this equal to Given the State of Cardboard, what would you use to find the x dimension that maximizes volume?

Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

$$V(x) = 4x^2 + 16x + 12V(x) = 4x^2 + 18x + 18$$

- A The x value of the vertex B The y value of the vertex C The root of the quadratic C The root of the quadratic C The y value of the vertex C
- **3** Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

$$V(x) = 4x^2 + 30x + 50V(x) = 4x^2 + 42x + 110$$

- A The x value of the vertex B The root of the quadratic A The x value of the vertex B The y value of the vertex C The y value of the vertex C
- Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the maximum volume possible?

$$V(x) = 4x^2 + 28x + 45V(x) = 4x^2 + 26x + 36$$

- A The x value of the vertex B The y value of the vertex C The root of the quadratic C The root of the quadratic C The root of the quadratic C The x value of the vertex C
- Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

$$V(x) = 4x^2 + 26x + 42V(x) = 4x^2 + 26x + 30$$

A The x value of the vertex B The root of the quadratic C The y value of the vertex C The root of the quadratic C