



Quadratic Equation Word Problem To Expression (Standard Form $f(x)$) - Volume from Sheet

1

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 7cm by 4cm sheet of cardboard by cutting x cm into each side and folding up.

A $V(x) = 4x^2 + 22x + 28$	B $V(x) = 4x^2 + 26x + 33$
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C $V(x) = -1x^2 + 26x + 28$	
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2

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 11cm by 8cm sheet of cardboard by cutting x cm into each side and folding up.

A $V(x) = 4x^2 + 38x + 88$	B $V(x) = 2x^2 + 36x + 88$
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C $V(x) = -1x^2 + 37x + 88$	
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3

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 4cm by 9cm sheet of cardboard by cutting x cm into each side and folding up.

A $V(x) = 8x^2 + 25x + 36$	B $V(x) = 3x^2 + 26x + 40$
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C $V(x) = 4x^2 + 26x + 36$	
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4

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 3cm by 4cm sheet of cardboard by cutting x cm into each side and folding up.

A $V(x) = 0x^2 + 14x + 12$	B $V(x) = 1x^2 + 12x + 12$
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C $V(x) = 4x^2 + 14x + 12$	
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5

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 7cm by 7cm sheet of cardboard by cutting x cm into each side and folding up.

A $V(x) = 9x^2 + 28x + 46$	B $V(x) = 4x^2 + 28x + 49$
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C $V(x) = 4x^2 + 27x + 53$	
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6

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 8cm by 7cm sheet of cardboard by cutting x cm into each side and folding up.

A $V(x) = 4x^2 + 30x + 56$	B $V(x) = 9x^2 + 34x + 56$
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C $V(x) = 2x^2 + 30x + 52$	
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7

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 2cm by 7cm sheet of cardboard by cutting x cm into each side and folding up.

A $V(x) = 8x^2 + 21x + 14$	B $V(x) = 4x^2 + 18x + 14$
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C $V(x) = 0x^2 + 14x + 14$	
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8

What quadratic equation, in standard form, comes from calculating the volume of the box?

A box is made from a 6cm by 11cm sheet of cardboard by cutting x cm into each side and folding up.

A $V(x) = 2x^2 + 34x + 70$	B $V(x) = 3x^2 + 34x + 61$
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C $V(x) = 4x^2 + 34x + 66$	
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