



Quadratic Equation Word Problem To Expression (Standard Form) - Area and Border

1

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

A 5 by 9 painting has a border of width x on all sides. Its total area (border included) is 1.

A $A(x) = 4x^2 + 28x + 49$	B $A(x) = 4x^2 + 28x + 44$
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C $A(x) = -1x^2 + 26x + 44$	
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2

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

A 11 by 6 painting has a border of width x on all sides. Its total area (border included) is 1.

A $A(x) = 6x^2 + 38x + 65$	B $A(x) = 4x^2 + 34x + 65$
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C $A(x) = 0x^2 + 34x + 65$	
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3

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

A 4 by 8 garden has a ditch of width x on all sides. Its total area, including the ditch is 1.

A $A(x) = 4x^2 + 24x + 31$	B $A(x) = 2x^2 + 23x + 31$
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C $A(x) = 8x^2 + 24x + 31$	
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4

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

A 4 by 2 painting has a border of width x on all sides. Its total area (border included) is 1.

A $A(x) = 4x^2 + 12x + 12$	B $A(x) = 4x^2 + 12x + 7$
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C $A(x) = 4x^2 + 13x + 7$	
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5

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

A 9 by 11 painting has a border of width x on all sides. Its total area (border included) is 1.

A $A(x) = 4x^2 + 40x + 98$	B $A(x) = 3x^2 + 45x + 98$
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C $A(x) = 2x^2 + 40x + 100$	
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6

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

A 7 by 6 painting has a border of width x on all sides. Its total area (border included) is 1.

A $A(x) = 4x^2 + 28x + 45$	B $A(x) = 3x^2 + 26x + 43$
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C $A(x) = 4x^2 + 26x + 41$	
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7

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

A 9 by 4 garden has a ditch of width x on all sides. Its total area, including the ditch is 1.

A $A(x) = 7x^2 + 30x + 35$	B $A(x) = 4x^2 + 26x + 35$
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C $A(x) = 4x^2 + 31x + 38$	
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8

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

A 3 by 11 painting has a border of width x on all sides. Its total area (border included) is 1.

A $A(x) = 7x^2 + 28x + 28$	B $A(x) = 4x^2 + 28x + 32$
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C $A(x) = 4x^2 + 33x + 27$	
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