



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

1

What quadratic equation, in standard form, would solve for the ditch width?

A 11 by 7 garden has a ditch of width x on all sides. Its total area, including the ditch is 140.

A	$6x^2 + 36x - 66 = 0$	B	$4x^2 + 36x - 63 = 0$
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C	$5x^2 + 37x - 63 = 0$
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2

What quadratic equation, in standard form, would solve for the ditch width?

A 2 by 8 garden has a ditch of width x on all sides. Its total area, including the ditch is 66.

A	$4x^2 + 20x - 50 = 0$	B	$4x^2 + 20x - 49 = 0$
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C	$4x^2 + 19x - 49 = 0$
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3

What quadratic equation, in standard form, would solve for the border width?

A 2 by 10 painting has a border of width x on all sides. Its total area (border included) is 70.

A	$1x^2 + 27x - 50 = 0$	B	$6x^2 + 24x - 50 = 0$
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C	$4x^2 + 24x - 50 = 0$
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4

What quadratic equation, in standard form, would solve for the border width?

A 7 by 4 painting has a border of width x on all sides. Its total area (border included) is 64.

A	$-1x^2 + 22x - 38 = 0$	B	$3x^2 + 26x - 36 = 0$
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C	$4x^2 + 22x - 36 = 0$
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5

What quadratic equation, in standard form, would solve for the border width?

A 4 by 11 painting has a border of width x on all sides. Its total area (border included) is 60.

A	$1x^2 + 30x - 19 = 0$	B	$4x^2 + 30x - 16 = 0$
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C	$1x^2 + 33x - 16 = 0$
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6

What quadratic equation, in standard form, would solve for the ditch width?

A 5 by 5 garden has a ditch of width x on all sides. Its total area, including the ditch is 54.

A	$7x^2 + 20x - 33 = 0$	B	$6x^2 + 20x - 30 = 0$
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C	$4x^2 + 20x - 29 = 0$
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7

What quadratic equation, in standard form, would solve for the border width?

A 8 by 7 painting has a border of width x on all sides. Its total area (border included) is 99.

A	$4x^2 + 27x - 45 = 0$	B	$2x^2 + 30x - 43 = 0$
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C	$4x^2 + 30x - 43 = 0$
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8

What quadratic equation, in standard form, would solve for the ditch width?

A 8 by 11 garden has a ditch of width x on all sides. Its total area, including the ditch is 130.

A	$4x^2 + 38x - 42 = 0$	B	$7x^2 + 42x - 42 = 0$
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C	$4x^2 + 35x - 47 = 0$
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