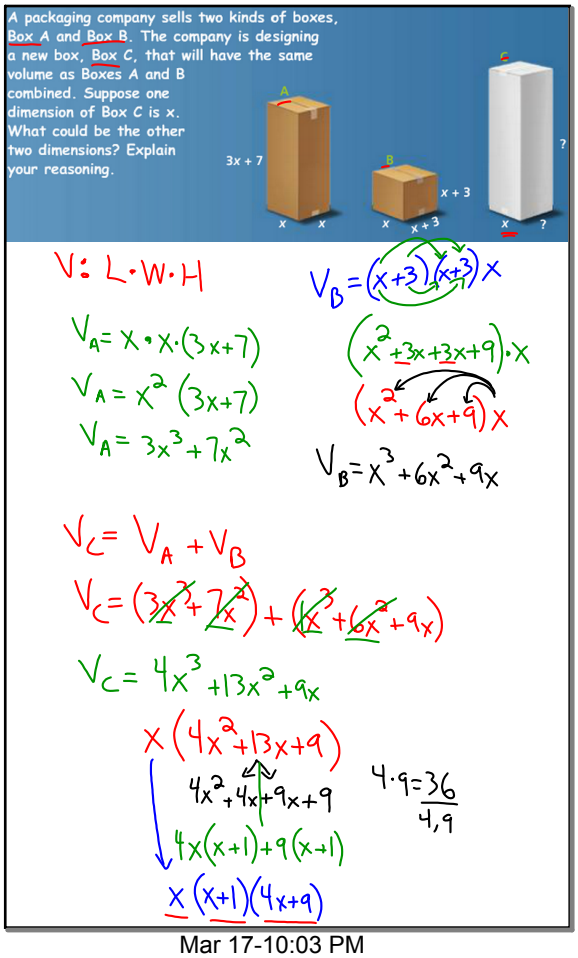
Algebra 1

Chapter 8

Section 8-8

Mar 13-8:07 AM



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The area of a rectangle is given by the trinomial $x^2 - 14x + 40$. What are the possible dimensions of the rectangle? Use factoring.

$x^2 - 14x + 40$ ← Factor

$(x-10)(x-4)$

$L = x - 4$

$x - 10 = W$

Feb 26-8:25 PM

The volume of a rectangular prism is given by the trinomial $2x^3 - 13x^2 - 7x$. What are the possible dimensions? Use factoring.

Feb 26-8:25 PM

Factoring by grouping

$7x^3 + 4x^2 - 21x - 12$

$x^2(7x+4) - 3(7x+4)$

$(7x+4)(x^2-3)$

Feb 26-8:25 PM

Factoring by grouping

$22x^3 + 33x^2 + 2x + 3$

$11x^2(2x+3) + 1(2x+3)$

$(2x+3)(11x^2+1)$

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Factoring by grouping

$12x^5 - 30x^4 + 18x^3 - 45x^2$

$3x^2(4x^3 - 10x^2 + 6x - 15)$

$2x^2(2x-5) + 3(2x-5)$

$3x^2(2x-5)(2x^2+3)$

Feb 26-8:25 PM

Factoring by grouping (EC on test)

$2x^8 - 6x^7 - 8x^6 + 8x^4 - 24x^3 - 32x^2$

$2x^2(x^6 - 3x^5 - 4x^4 + 4x^2 - 12x - 16)$

$x^4(x^2-3x-4) + 4(x^2-3x-4)$

$2x^4(x^2-3x-4)(x^4+4)$

$2x^4(x-4)(x+1)(x^4+4)$

Feb 26-8:25 PM