Factoring Complex Trinomials ($ax^2 + bx + c$, $a \neq 1$) Part1

March 28/2011

"not equal to"

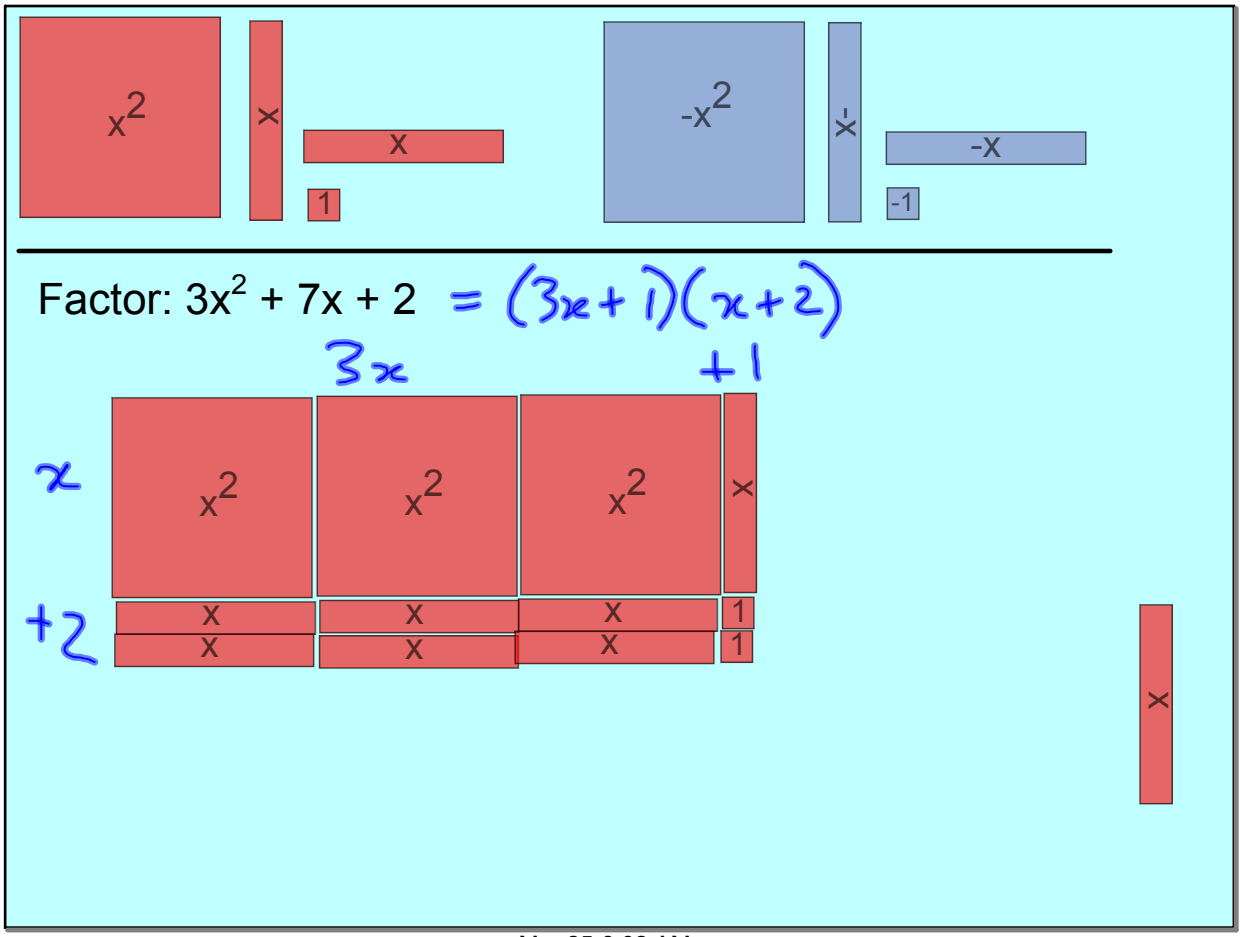
1. Using Alge-tiles

Model the expression as an area. The tiles must form a rectangle (or square).

The lengths of the sides are factors.

Hint: Focus on the corners with a and c first.

Mar 26-8:24 AM



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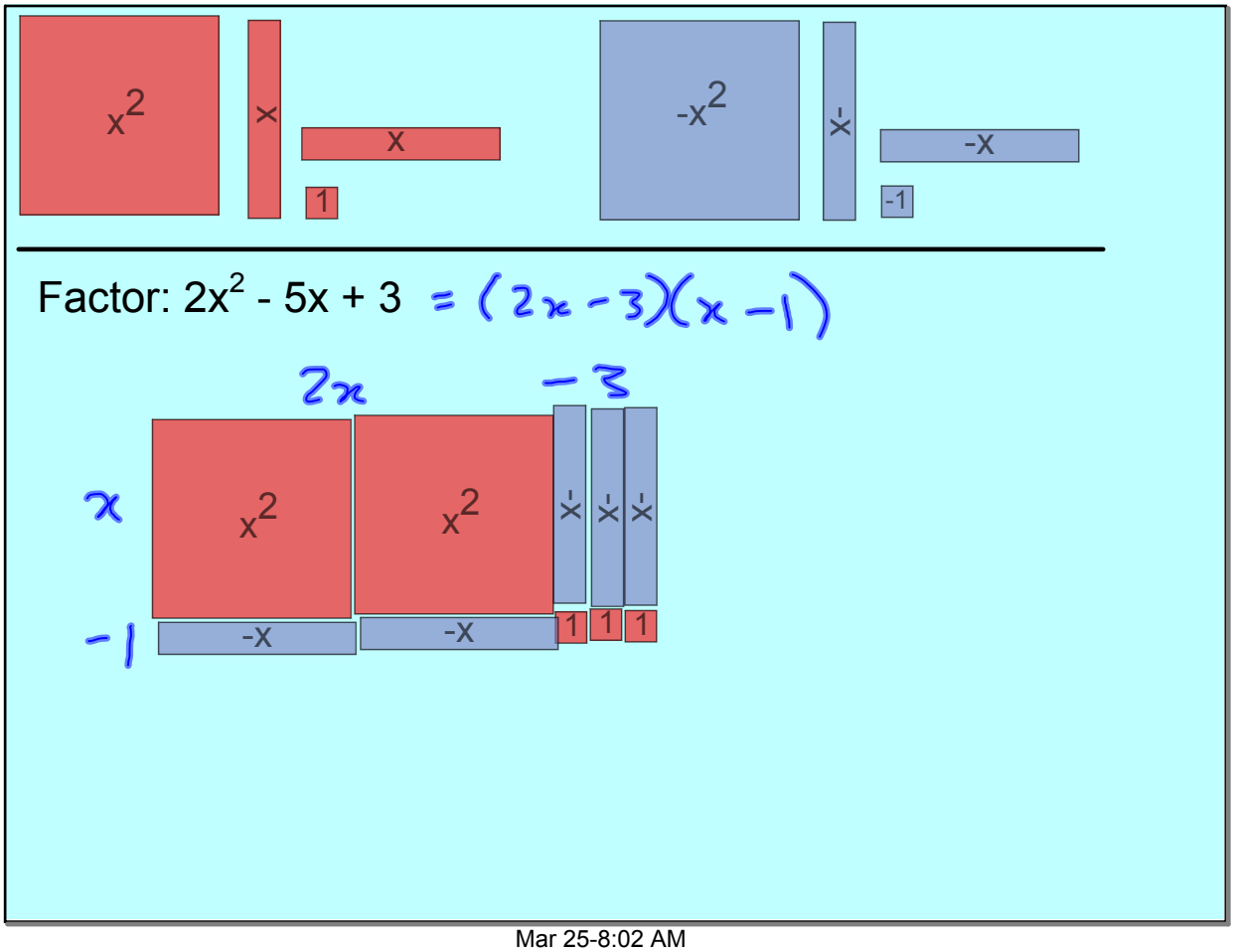

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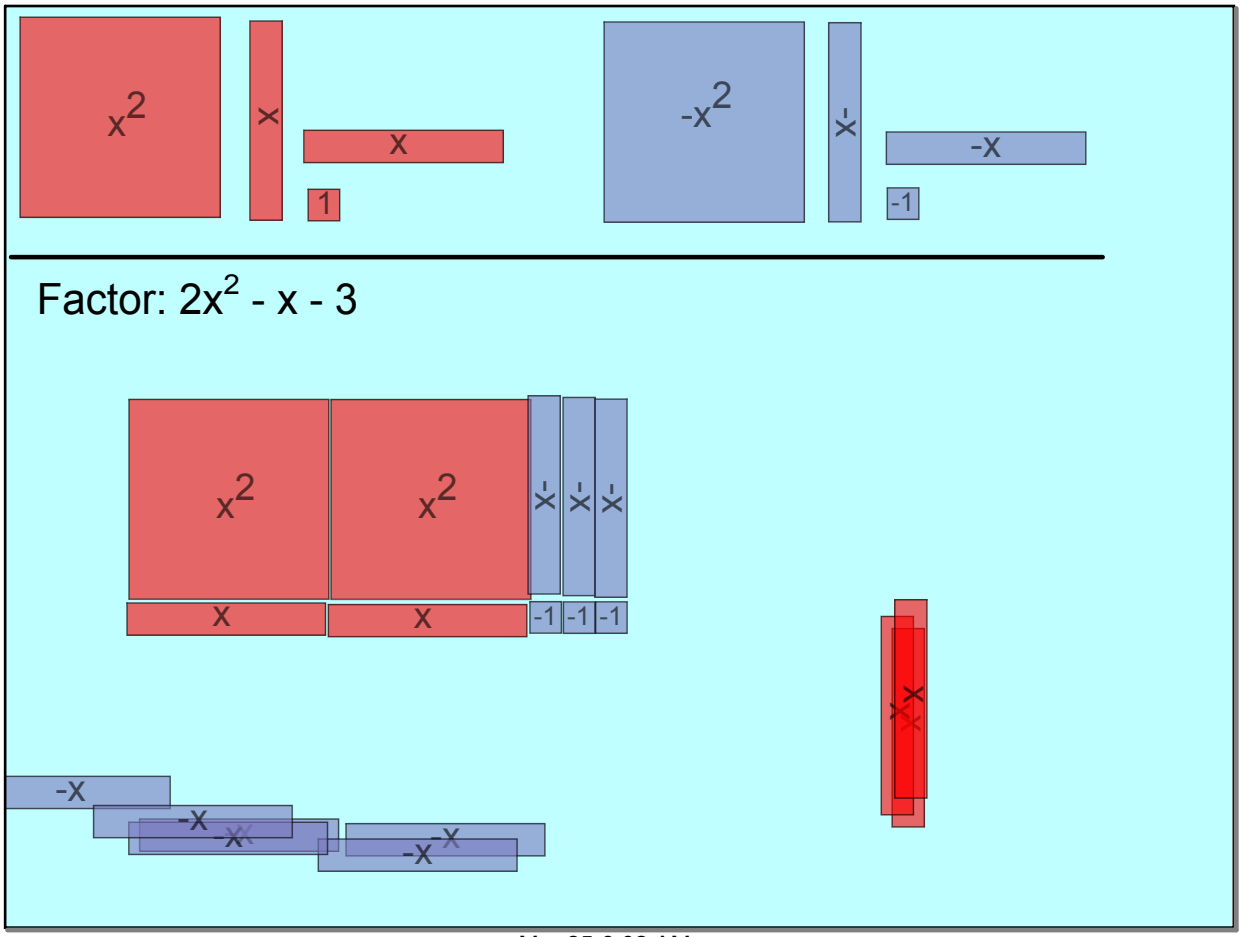

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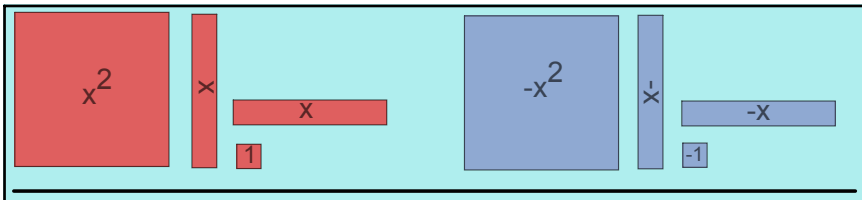
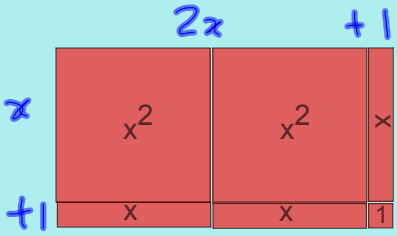


The simplest factoring is to find a common factor. If possible, always remove any common factors first.

Ex2: Factor $10x^2 + 15x + 5$ GCF = 5

$= 5(2x^2 + 3x + 1)$

factor using tiles



$= 5(2x+1)(x+1)$

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Assigned Work

p.222 # 1, 2, 5ae, 6d (common factor first)

Mar 28-11:05 AM