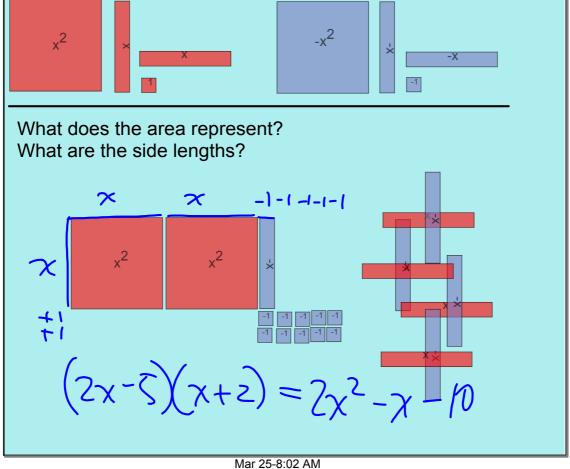


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Multiplying Polynomials & Expanding Binomials

Mark 29/2016

Recall: Multiplying two <u>linear</u> terms together forms an area.

We can often represent this multiplication using algebra tiles.

On paper, we can represent this:

- (a) graphically (an area model), or
- (b) algebraically

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Definitions:

1. Monomial - an expression with a single term

$$3x$$
 or 7 or $5xy$ or a^2bc^3

2. Binomial - an expression with two terms

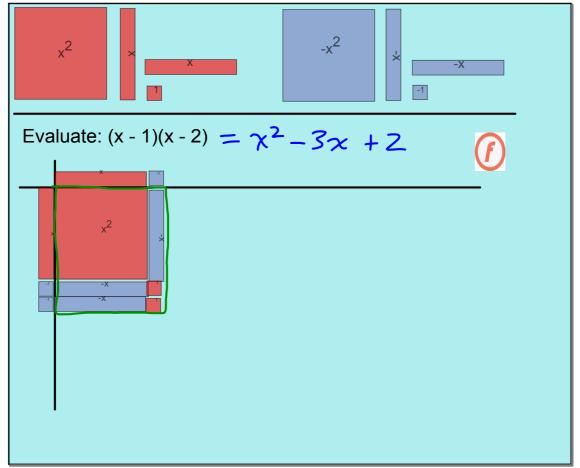
$$(2x + 5)$$
 or $(a + 2b)$ or $(m^2 - pq)$

Examples of terms? $\frac{2x}{5}$ $\frac{5}{a}$ $\frac{2b}{b}$ $\frac{n^2}{b}$

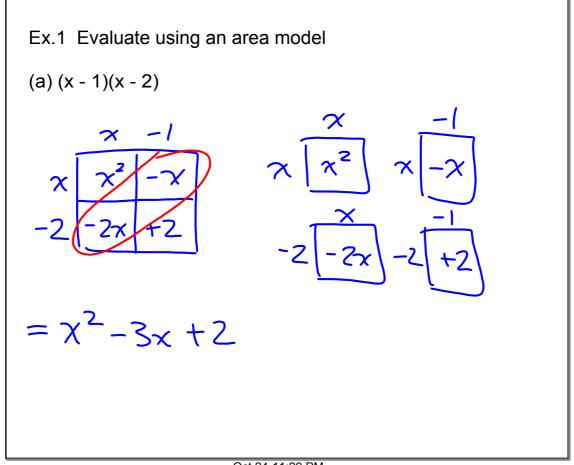
3. Trinomial - an expression with three terms

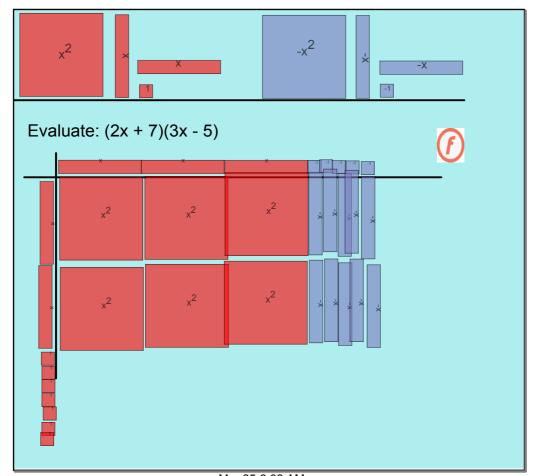
$$x^2 + 5x + 6$$
 or $2xy + a + 5$

4. Polynomial - an expression with any number of terms.



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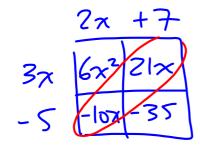




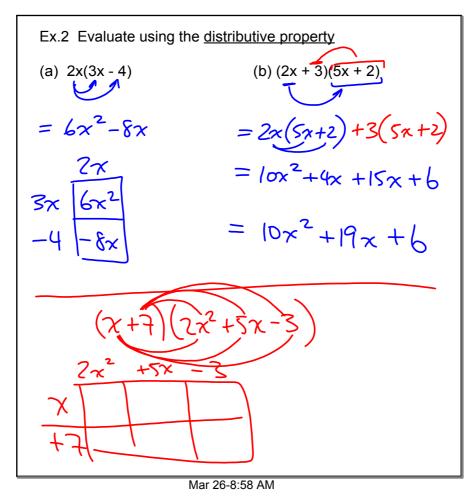
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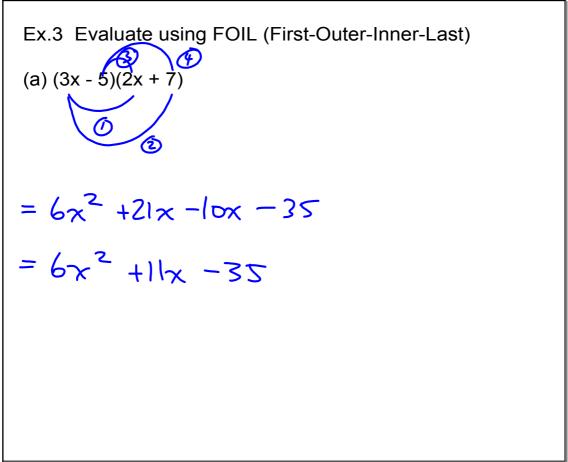
Ex.1 Evaluate using an area model... continued

(b)
$$(2x + 7)(3x - 5) = 6x^{2} + 11x - 35$$



Oct 24-11:29 PM







Mar 26-9:06 AM