Notes #4 - Multiplying Polynomials by Monomials

November 3, 2016 8:19 AM

~~Whenever you use the~~ DISTRIBUTIVE PROPERTY ~~letters:~~ the ~~multiplied term~~ in front gets "given"

$\frac{-8}{2}x^2 + \frac{14}{2}x$

$-4x^2 + 7x$

$5(3x+2)$

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

$15x + 10$

$4(2m-3n)$

$4(2m) + 4(-3n)$

$8m - 12n$

$8m + -12n$ (not like this) yuck!

Solve using tiles:

a) $(3x)(2x-1)$

$-2x(6x-3)$

$-2x(6x) - 2x(-3)$

$-12x^2 + 6x$

$\left(\frac{1}{2}x\right)(8x-14)$

$-\frac{1}{2}x\left(\frac{8x}{1}\right) - \frac{1}{2}x\left(\frac{-14}{1}\right)$

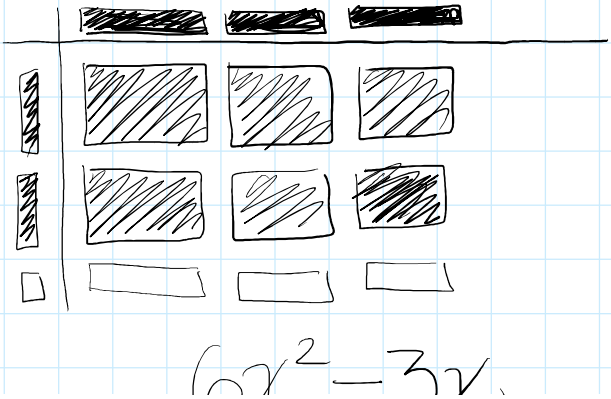
$\frac{2}{3}x(12x-9)$

$\frac{2}{3}x\left(\frac{12x}{1}\right) + \frac{2}{3}x\left(\frac{-9}{1}\right)$

$\frac{24}{3}x^2 - \frac{18}{3}x$

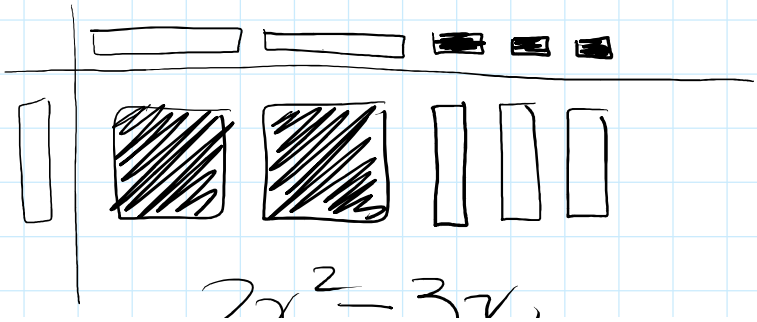
$8x^2 - 6x$

$3x(2x-1)$



$6x^2 - 3x$

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



$2x^2 - 3x$

$6x^2 - 3x$ | $2x^2 - 3x$