lulumath

Multiplying a Monomial by a Polynomial

Video Notes

Video Link

Multiplying a Monomial by a Polynomial

Required background knowledge:

- how to multiply monomials

Multiply:

$3(2x + 9)$

$2x + 9 \cdot$

$2x + 9 \cdot$

$+ \; 2x + 9 \cdot$

$6x + 27$

Distributive Property → multiply the monomial through to every term in the brackets/parentheses

+/−

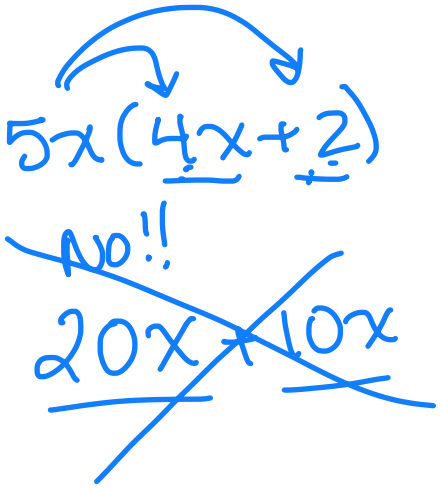
$3(2x + 9)$

$6x + 27$

Multiply:

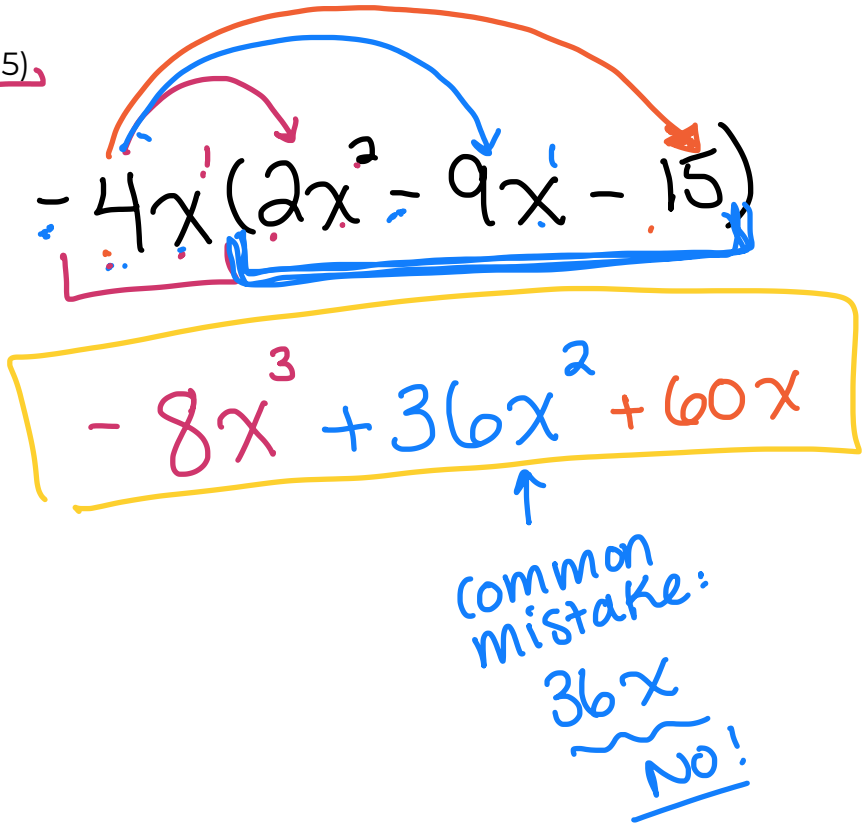
$5x(4x + 2)$

$20x^2 + 10x$



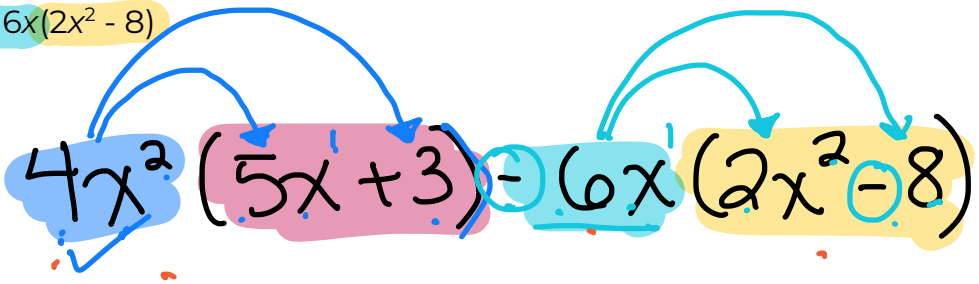
Multiply:

$-4x(2x^2 - 9x - 15)$



Multiply:

$4x^2(5x + 3) - 6x(2x^2 - 8)$



$20x^3 + 12x^2 - 12x^3 + 48x$

$8x^3 + 12x^2 + 48x$