M8E: Unit 5.3: Multiplying Polynomials

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* 1. How to Multiply Monomial by Monomial?

-remember: a monomial has only ONE term (NO addition or subtraction attached to it)

 ex: monomials:3x; 5; -0.6y NOT monomials: 3x+4; x-5

-to multiply monomials by monomials, we multiply the coefficients together and add/subtract the exponents on the variables.

 ex: 3(5x)=

 ex: 3x(5x) =

 ex: -3x(5x-3)=

* 1. How do we multiply monomials by polynomials?

-we can use the distributive property from elementary school:

 3( 2+4) =

So, we also do: 3(2x+4)=

Ex: 3(2x-4)=

Ex: -3(2x-4)=

Ex: -3x(2x4 - 4) =

Ex: -3x(2x4 - 5x3 + 4x2 - x - 8) =

WB pg 179 #2 and 3(left column), 6-8(left column)