Math 8 E: Unit 5.1 - polynomials

November 27, 2015

10:16 AM

* 1. Let's go over some vocabulary:

|  |  |  |
| --- | --- | --- |
| Word  | definition | example |
| Variable  |   |   |
| Coefficient  |   |   |
| Term  |   |   |
| Monomial  |   |   |
| Binomial  |   |   |
| Trinomial  |   |   |
| Polynomials   |   |   |
| Degree    |   |   |

* 1. Polynomials can be written in two ways:

* 1. Descending order of exponents

 ex:

 ii) ascending order of exponents

Ex:

* 1. How can we model polynomials?

-we use algebra tiles

* 1. How can we simplify polynomials?

-combine 'like' terms

-in elementary school, we used shapes.

 ex: 3 + 2 =

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Now: 3x + 2x = -both terms have the same variable or 'shape', so we can combine them.

 3x + 2y = -both terms have different variables or 'shapes', so we DO NOT combine them.

So: 3x + 2x - 5x =

 3x + 2x - 5y =

 3x2 + 2x - 5y =

 3x2 + 2x2 + 6x - 5y =

Via modelling:

Try:

-do WB pg 159 #1, 3-10 (left column)

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