

October 24, 2017
 * Quiz #6 - Tomorrow
 • 5.1 & Function Handout

Oct 24-10:00 AM

Doing 5.2 & 5.4
 5.4 Addition of Polynomials
 * Combining "Like" terms
 • what are "like" terms?
 ① Same variable (+)
 ② Same exponent
 $5x^2 + 3x^2$
 $(5+3)x^2$
 $8x^2$
 $-3x^5 - 4x^3$
 * Different exponents, therefore the terms are not like.

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Polynomial Addition
 $(5y^3 - 2y^2 + 4) + (-4y^2 - 8y^3 + 3)$
 Steps
 ① Clear Parentheses by distribution
 ② Combine like terms
 ③ write Polynomial in descending Powers.
 $5y^3 - 2y^2 + 4 - 4y^2 - 8y^3 + 3$
 $5y^3 - 8y^3 - 2y^2 - 4y^2 + 4 + 3$
 like like like
 $-3y^3 - 6y^2 + 7$
 Degree: 3

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$(4x^3 + 2x - 1) - (3x^2 + 2x - 5)$
 $4x^3 + 2x - 1 - 3x^2 - 2x + 5$
 $4x^3 - 3x^2 + 4$

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#26) $(-9v^2 - 8u) + (-2uv - 2u^2 + v^2) + (-v^2 + 4uv)$
 $-9v^2 - 8u - 2uv - 2u^2 + v^2 - v^2 + 4uv$
 $-9v^2 + v^2 - v^2 - 8u - 2uv + 4uv - 2u^2$
 $-9v^2 - 8u + 2uv - 2u^2$
 v: 2 u: 1 uv: 2 u^2: 2

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