U2D5_T Simplifying Polynomials Part 1

Saturday, February 10, 2018 10:32 PM

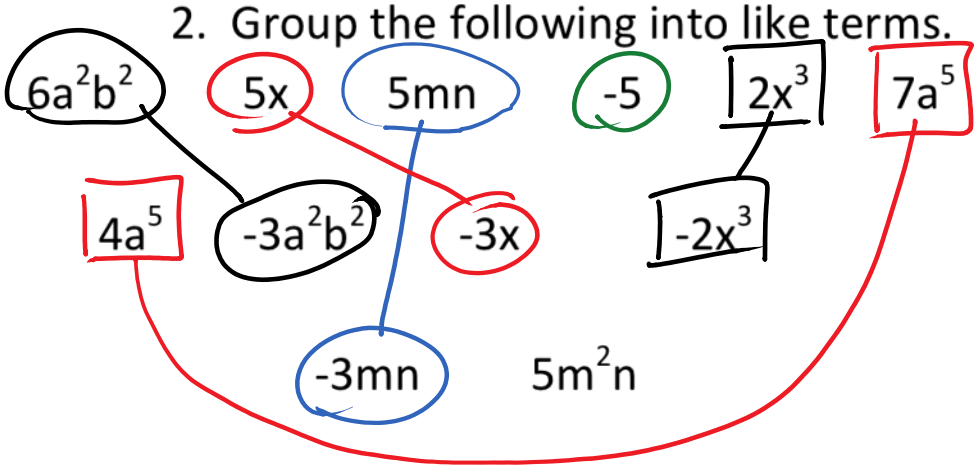
U2D5_T Simplifyin...

U2D5 **Simplifying Polynomials Part 1**

Warm Up: 1. Determine whether each pair of terms are "like" or "unlike".

Terms	Like	Unlike
x, 2x	✓	
x, x^2		✓
ab, 2ab	✓	
a^2b, ab^2		✓

2. Group the following into like terms.



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COLLECTING LIKE TERMS

- Add or subtract like terms only.

- Apply integer rules to the coefficients of like terms and keep the variable part the same.

Examples: Simplify. (Collect like terms.)

a) $5x - 3x$

$= 2x$

b) $-2x^3 + 2x^3$

$= 0x^3$

$= 0$

c) $5x + 2 + 3x + 4$

$= 8x + 6$

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d) $4m - 3 - m + 4$

$= 3m + 1$

e) $3x^2 + 5 + 4 - \frac{1}{2}x^2$

$= \frac{6}{2}x^2 - \frac{1}{2}x^2 + 5 + 4$

$= \frac{5}{2}x^2 + 9$

f) $3a^2 - 2ab - 2b^2 - ab + b^2 - 2a^2$

$= a^2 - 3ab - b^2$

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g) $2m^3n^2 + \frac{3m^2n^3}{2} - m^3n^2 - \frac{1}{2}m^2n^3$

NOTE: $\frac{3m^2n^3}{2} = \frac{3}{2}m^2n^3$

$= m^3n^2 + m^2n^3$

U2D5 HW: Page 151-152 #1-3,5-9 Challenge: page 153 #17