

5.2 Like and unlike terms

Friday, December 4, 2015 12:32 PM

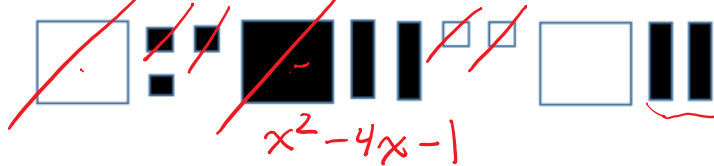
Math 9

5.2 Like and Unlike Terms

Name _____

Zero Property- One positive and one negative tile of the same shape they cancel each other out.

Example: simplify using the zero property, then show the end result.

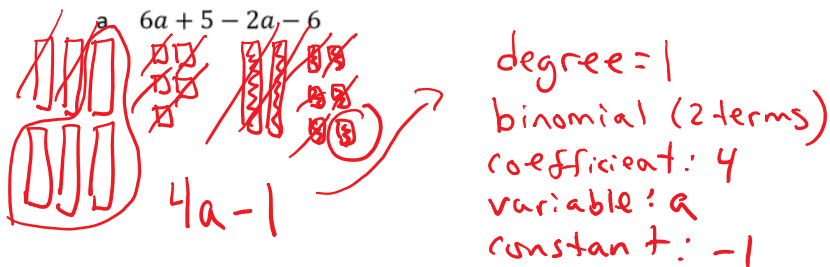


Like Terms: Terms that are represented by matching tiles (in variables & exponents) are called like terms

$3a, 7a$ $5x^2, -4x^2$ $2ab^2, 10ab^2$

Examples:

Use algebra tiles to simplify:



b. $4x^2 + 2 - 7x + 5x - 6x^2 + 1 - x$

$4x^2 - 6x^2 + 2 + 1 - 7x + 5x - x$

$= -2x^2 + 3 - 3x$ ✓

$= -2x^2 - 3x + 3$ ✓

Math 9

5.2 Like and Unlike Terms

Name _____

Example:

Simplify symbolically

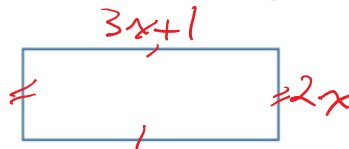
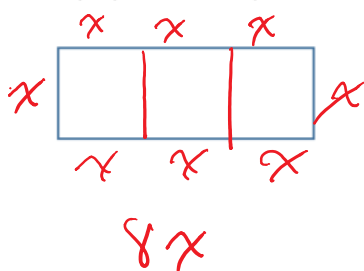
a. $3x^2 - 4x + 5x^2 - 2y$
 $8x^2 - 4x - 2y$

b. $3x^3 - 8x + 7x^2 - 8x^3 + 2x - 6$
 $-5x^3 + 7x^2 - 6x - 6$

b. $4xy - y^2 - 3x^2 + 2xy - x^2 - 3y^2$
 $6xy - 4y^2 - 4x^2$

Example 3:

Write a polynomial to represent the perimeter around each rectangle



$$3x+1 + 3x+1 = 6x+2$$

$$2x + 2x = 4x$$

$$6x+2 + 4x = 10x+2$$

Assignment:

Pg 222 #6,8,9,11a,12-14ace,15-18,19c,22

p. 222 #8,9,17,19c,22
 +
 worksheet