Warm-Up December 12, 2017

1.

	Coefficient	Constant	Variable	Degree
a. $4-3x^2$	-3	4	x	2
b. $2x^2-x-4$	$2, -1$	-4	x	2

$2x^2-1x-4$

Identify the like terms in each of the following:

↳ the same degree
↳ the same variable

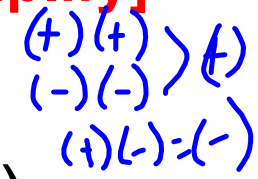
A. $-4x$, $-4y$, x^2, $-2xy$, $3x$, $6y$, $-x$,

$-4x, 3x, -1x$
$-4y, 6y$

B. 0.5, $7y^2$, -2, $-3x$, $1/2$, $5xy^2$

$0.5, 2, \frac{1}{2}$

3. Add **[remove brackets, group, simplify]**



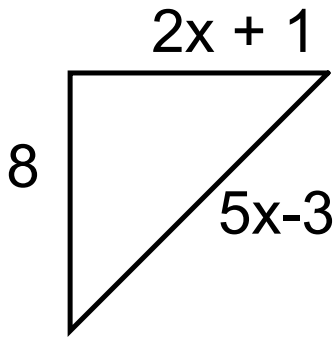
$(2x - 4) + (-2x^2 + 8x - 3)$

$2x - 4 - 2x^2 + 8x - 3$

$-2x^2 + 2x + 8x - 4 - 3$

$-2x^2 + 10x - 7$

Write a simplified expression for the perimeter.



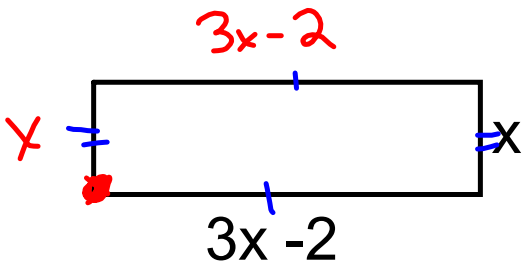
$P = S_1 + S_2 + S_3$

$2x+1 + 5x-3+8$

$2x+5x+1-3+8$

$7x+6$

The distance around the outside of object/shape



$P = S_1 + S_2 + S_3 + S_4$

$3x-2 + x + 3x-2 + x$

$3x+x+3x+x-2-2$

$8x-4$

Section 5.4
Subtracting Polynomials

What we already know how to do:

[Remove brackets, Group, Simplify]

$(-2a^2 + a - 1) + (a^2 - 3a + 2)$

$-2a^2 + 1a - 1 + 1a^2 - 3a + 2$

$-2a^2 + 1a^2 + 1a - 3a - 1 + 2$

$-1a^2 - 2a + 1$

1) Remove Brackets
2) Group
3) Simplify

$$(-2a^2 + a - 1) - (a^2 - 3a + 2)$$

$$-2a^2 + a - 1 - 1a^2 + 3a - 2$$

$$-2a^2 - 1a^2 + 1a + 3a - 1 - 2$$

$$-3a^2 + 4a - 3$$

$(5x^2 - 3y + 2y^2) - 1(-8x^2 + 7y - 4y^2)$

$5x^2 - 3y + 2y^2 + 8x^2 - 7y + 4y^2$

$5x^2 + 8x^2 + 2y^2 + 4y^2 - 3y - 7y$

$13x^2 + 6y^2 - 10y$

$$(-3x^2+5x-3y^2)-(8x^2-3x+6y^2)$$

$$-3x^2+5x-3y^2-8x^2+3x-6y^2$$

$$-3x^2-8x^2-3y^2-6y^2+5x+3x$$

$$-11x^2-9y^2+8x$$

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#8 [a,c,e,g]

#9 [a,g]

#10 all

sketch

#17 [a,c]

1. Question
2. Remove Brackets
3. Group
4. Simplify

Page 235
8 [a,c,e,g]
Page 236
#15 a, c, e

Page 504 Answers!