Warm-Up December 16, 2014

1.

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

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

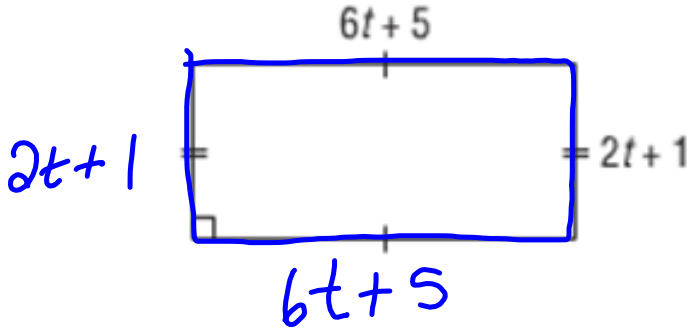
$(2x-4)+(-2x^2+8-3)$

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

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

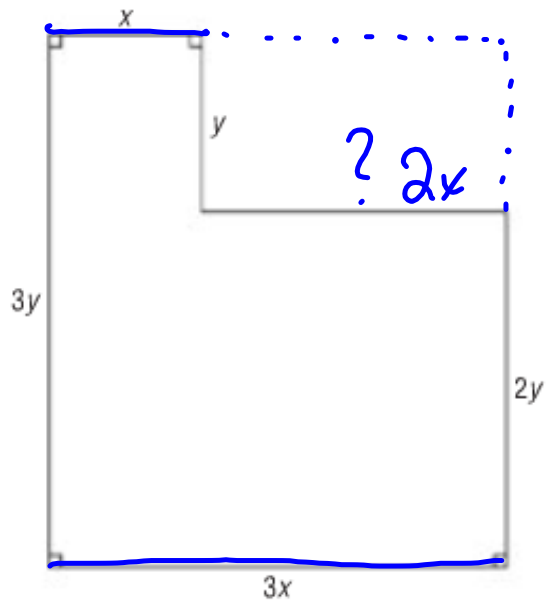
$-2x^2+2x+1$

3. Write a simplified expression for the perimeter



$16t+12$

22. Write a polynomial for the perimeter of this shape. Simplify the polynomial.



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$6y + 6x$

$x + y + 2x + 2y + 3x + 3y$

Section 5.4
Subtracting Polynomials

What we already know how to do:

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

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

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

$-a^2 - 2a + 1$

$(+)(+) = (+)$
$(-)(-) = (+)$
$(+)(-) = (-)$

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

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

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

$-3a^2 + 4a - 3$ ←

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

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

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

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

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

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

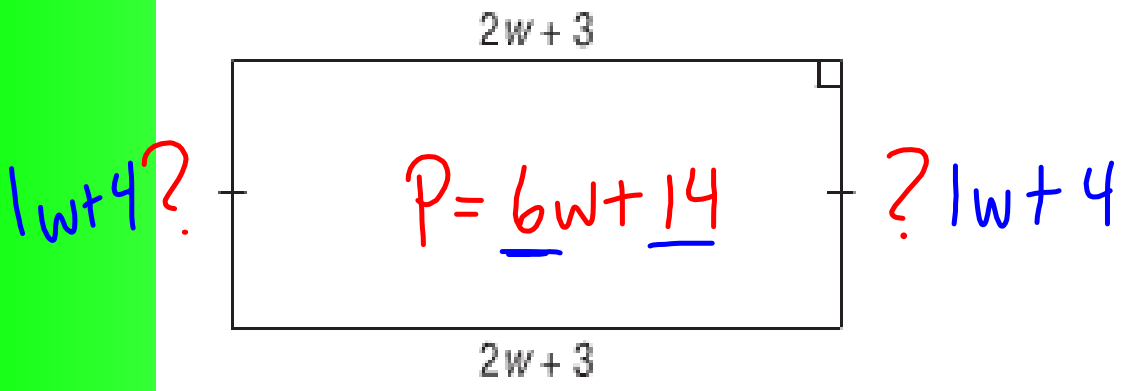
$$-3x^2+5x-3y^2-8x^2+3x-6y^2$$

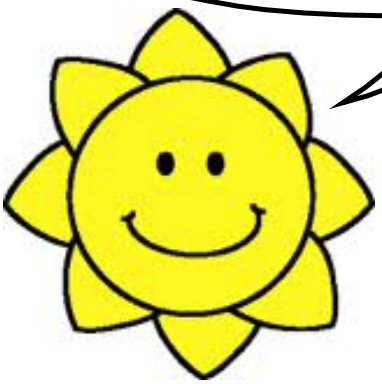
$$-3x^2-8x^2-3y^2-6y^2+5x+3x$$

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

The perimeter of each polygon is given.
Determine each unknown length.

a) $6w + 14$





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8 **ALL!**

12 ***just solve***

13 [b, c] *sketch*

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