

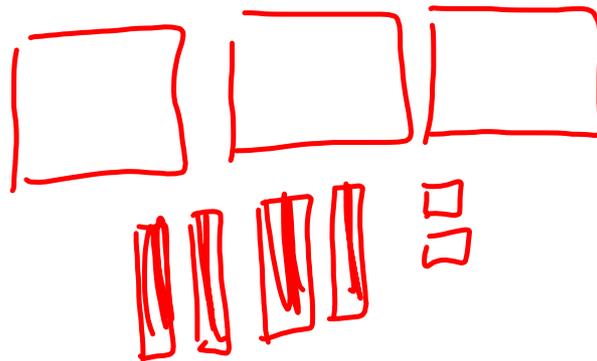
Warm- Up December 13

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



- a. coefficient
[# in front variable] 3, -4
- b. degree
[highest exponent] 2
- c. variable
[letter] x
- d. constant
[just a #] 2
- e. type trinomial
- f. number of terms 3

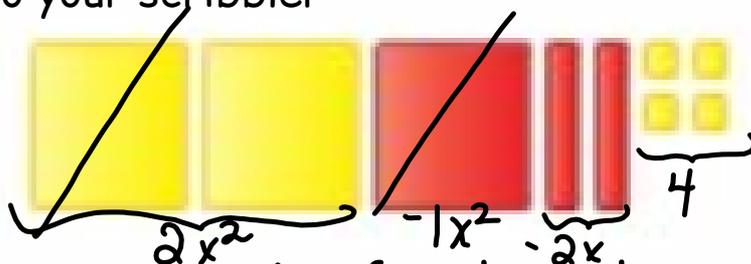
g. Draw Algebra Tiles
 $3x^2 - 4x + 2$

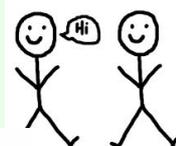


Section 5.2

Like and Unlike Terms

Sketch it into your scribbler




 yellow positive
 red negative

Write the expression for the polynomial.

$$2x^2 - 1x^2 - 2x + 4$$

$$x^2 - 2x + 4$$



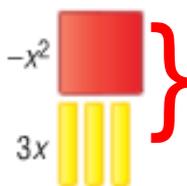
Like terms

Terms that can be represented by algebra tiles of the same **size** and **shape**



Like terms

- Group
- Simplify



unlike terms

- cannot be grouped
- Cannot be simplified



Simplifying Polynomials

To Simplify Polynomials you must first group the like terms!!!

$$4x^2 - 7x + 1 - 7x^2 + 2x + 3$$

Descending
order
[Group
like terms]

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

Simplify

$$-3x^2 - 5x + 4$$

$$\textcircled{1} \quad 4n^2 - 1 - 3n - 3 + 5n - 2n^2$$

② Group

[descending order]

$$\textcircled{4}n^2 - \textcircled{2}n^2 + \boxed{5n} - \boxed{3n} - \boxed{1-3}$$

③ Simplify

$$2n^2 + 2n - 4$$

$$14x^2 - 11 + 30x + 3 + 15x - 25x^2$$

Group $(14x^2 - 25x^2 + 30x + 15x - 11 + 3)$

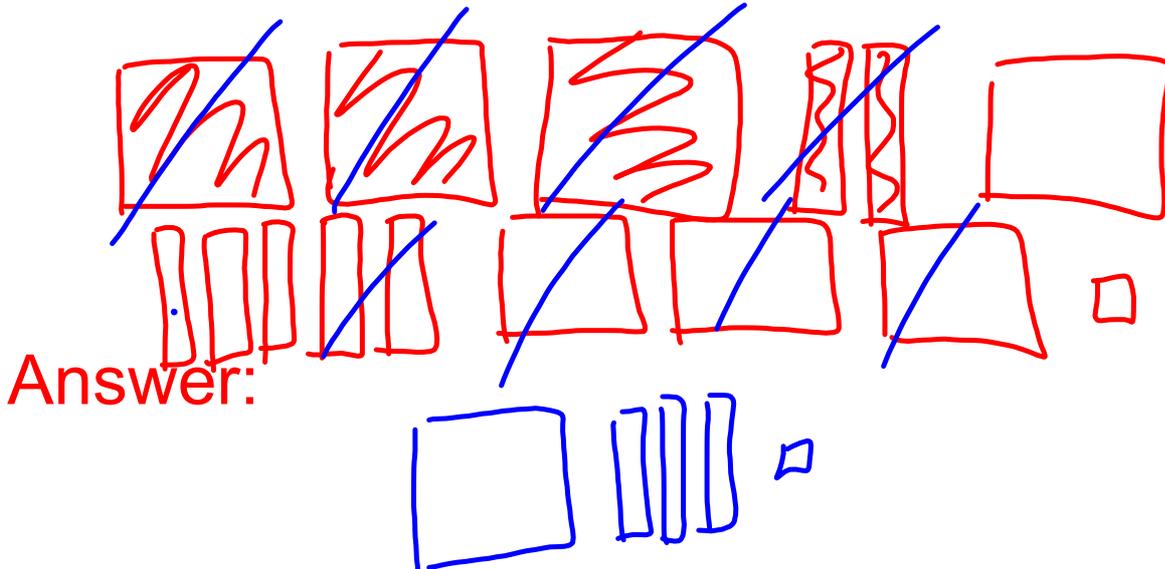
Simplify $-11x^2 + 45x - 8$

Simplify by sketching the algebra tiles

$$-3b^2 - 2b + 5b + 4b^2 + 1$$

$$-3b^2 + 4b^2 - 2b + 5b + 1$$

$$b^2 + 3b + 1$$



Identify the like terms

1) same degree
2) same variable

~~$-3x^2$~~ , ~~$4x$~~ , ~~$-2x^2$~~ , ~~2~~ , ~~$5x$~~ , ~~-3~~ , $-4y^2$

$-3x^2$, $-2x^2$

$4x$, $5x$

2 , -3

$-4y^2$

Which ones are like $-24x^2$

Do your Homework!

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6,7,8
9 [simplify]

don't use algebra tiles

Sketch with like terms grouped then sketch simplified answer

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#11 sketch tiles

11. a) Question



Answer



3 steps

12

a, c, e Group like terms first then simplify

