

Warm-Up December 7, 2017

descending
order
like
terms

Group and Simplify the following. **Classify** the polynomial in your final answer.

$$2x^2 - 3x + 7 - 5x^2 - 5x - 10$$

Group $(2x^2 - 5x^2 - 5x - 3x + 7 - 10)$

Simplify $-3x^2 - 8x - 3$

Classify Trinomial

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

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

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

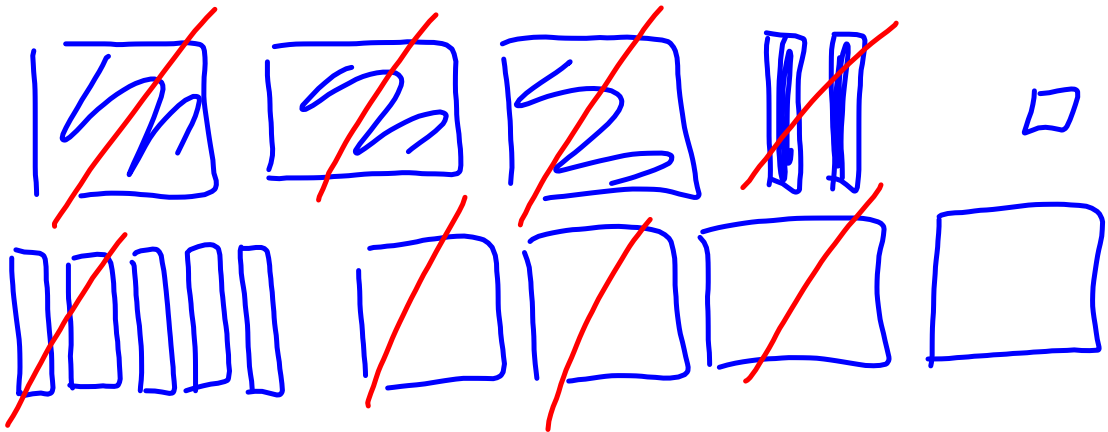
① $4x - 2x^2 - x + 3 - 4x^2 - 6$

② Group $-4x^2 - 2x^2 + 4x - 1x + 3 - 6$
[descending order]

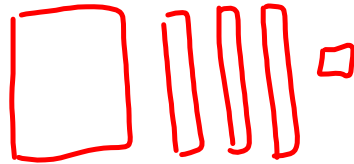
③ Simplify $-6x^2 + 3x - 3$
 $-3 + 3x - 6x^2$

Simplify **by sketching** the algebra tiles

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



Answer:



Group
Simplify

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

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

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

$$3b + b^2 + 1 \leftarrow$$

Identify the like terms

- 1) same degree
2) same variable
- Handwritten note:* Hack both

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

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

$4x, 5x$

$2, -3$

$4y^2$

Simplifying polynomials with more than one variable...



Group like terms!!!

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

Group

$$(-1)y^2 - 3y^2 - 3x - 1x + 4xy + 2xy$$

Simplify

$$-4y^2 - 4x + 6xy$$

or

$$-4y^2 + 6xy - 4x$$

$$-4y^2 + 6xy - 4x$$

(3)(4)
(4)(3)

Group then simplify

↳ Group like terms



A. $\cancel{-3rs} + \cancel{4r^2} - \cancel{8sr} + 3s - \cancel{10r^2} - 7s$

Group $(4r^2 - 10r^2) - 3rs - 8sr - 7s + 3s$

Simplify $-6r^2 - 11rs - 4s$
 or
 $-6r^2 - 4s - 11rs$

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#6

#7

#8... sketch the tiles combining like terms...then simplify
[by crossing out] write the simplified polynomial.

#9... sketch the tiles combining like terms..then write the
simplified polynomial... then find the equivalent

#10

#11...DO NOT DRAW ALGEBRA TILES

1. write the polynomial
2. group like terms [descending order]
3. write the simplified polynomial

#12 A, C, E

1. write the polynomial
2. group like terms [descending order]
3. write the simplified polynomial

#13 A,C,E