

Warm-Up

December 13, 2018

1. Identify the like terms → same degree
same variables!

~~$3x^2$~~ , ~~$\frac{2}{3}x$~~ , ~~$0.5x^2$~~ , 4 , ~~$3.2x$~~ , -6.8
 $3x^2, 0.5x^2$
 $\frac{2}{3}x, 3.2x$
 $4, -6.8$

2. Write the simplified expression [remember to group first!]

a) $3x^2 + 4y - 2x + 4y - 6x^2$

$(3x^2 - 6x^2) + 4y + 4y - 2x$
 $-3x^2 + 8y - 2x$

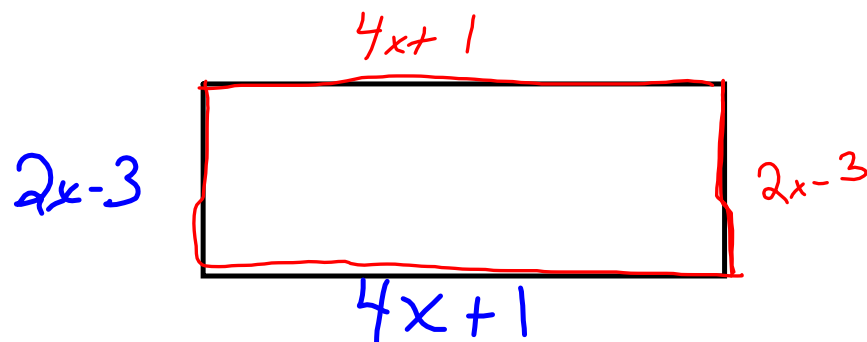
$$b) \quad 3x^2y - 2xy + 4yx^2 - 6yx$$

$$(3)x^2y (+4)x^2y \boxed{-2xy} \boxed{-6xy}$$

$$7x^2y - 8xy$$

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

Write a simplified expression for the perimeter [the distance around the outside]



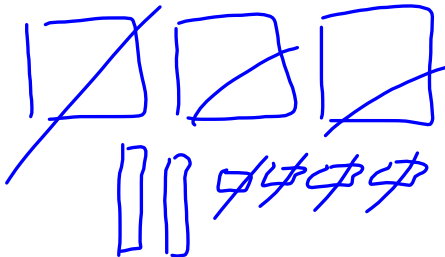
Question $2x-3+4x+1+2x-3+4x+1$
 Group $(2x+1)x+(2x+1)x$
 Simplify $(2x+1)x+(2x+1)x$

$$12x-4$$

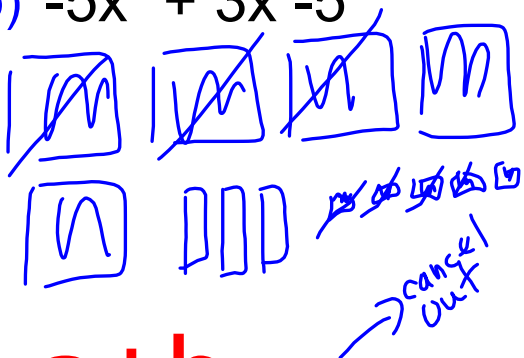
Sec. 5.3 Adding Polynomials

Model

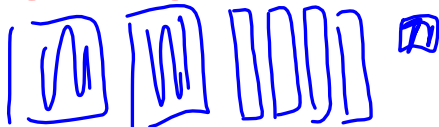
a) $3x^2 + 2x + 4$



b) $-5x^2 + 3x - 5$



a+b [simplified]



***Remember**

$$\begin{aligned} (+)(+) &= (+) \\ (-)(-) &= (+) \\ (+)(-) &= (-) \end{aligned}$$

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

1. Remove the brackets.

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

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

Group $(3x^2) (-5x^2) (+2x) (+3x) (+4) (-5)$

simplify $-2x^2 + 5x - 1$

Question $(3s + 4) + (-2s^2 - 1s - 6)$

1) Remove
brackets

$$3s + 4 - 2s^2 - 1s - 6$$

2) Group

$$-2s^2 + 3s - 1s + 4 - 6$$

3) Simplify

$$-2s^2 + 2s - 2$$

1. Copy the question
2. Remove the brackets
3. Group
4. Simplify

$$(-3x^2 + 4x - 2) + (2x^2 - 6x + 5)$$

$$-3x^2 + 4x - 2 + 2x^2 - 6x + 5$$

$$\boxed{-3x^2} + \boxed{2x^2} + \boxed{4x} - \boxed{6x} - \boxed{2} + \boxed{5}$$

$$\boxed{-1x^2 - 2x + 3}$$

Simplify the following

↳ Remove Brackets

↳ Group

↳ Simplify

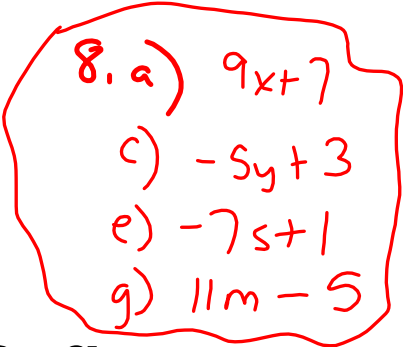
$$-2(4x + 2) + 3(3x - 6)$$

$$-8x - 4 + 9x - 18$$

$$(-8x + 9x) \boxed{-4 - 18}$$

$$1x - 22$$

1. Copy the question
2. Remove the brackets
3. Group
4. Simplify



8. a) $9x + 7$
c) $-5y + 3$
e) $-7s + 1$
g) $11m - 5$

A. Page 229 #8 a, c, e, g

B. Worksheet even questions only!