Warm-Up

December 16, 2019

1. Identify the like terms

same variable
same degree

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

$2x^2, -1x^2$
$-x, 3x$
$y^2, -1y^2$
$2y$

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

collect like terms.

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

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

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

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

$3x^2y+4x^2y-2xy-6xy$

$7x^2y-8xy$

$6y \cdot 2x^2$
$6yx^2$

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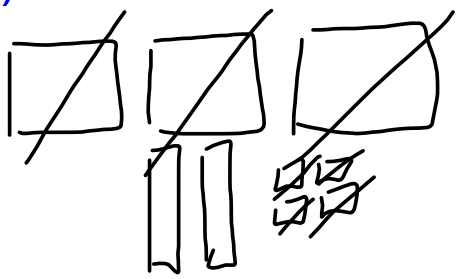
Sec. 5.3 Adding Polynomials

Model

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



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

a+b [simplified]

*Remember

(+)(+) = (+)

(-)(-) = (+)

(+)(-) = (-)

a + b

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

1. Remove the brackets.

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

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

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

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

① $(-3x^2 + 4x - 2) + (2x^2 - 6x + 5)$

② $-3x^2+4x-2+2x^2-6x+5$

③ $-3x^2+2x^2+4x-6x-2+5$

④ $-1x^2-2x+3$

Simplify the following

- Remove Brackets
- Group
- Simplify

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

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

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

$1x - 22$

Section 5.4
Subtracting Polynomials

What we already know how to do:
[Remove brackets, Group, Simplify]

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