

Obj. Combine like terms

What are like terms:

-terms that have the same variables and the same exponents

-examples of like terms

$$5x \quad 6x \quad -10x \quad 1x$$
$$3xy^2 \quad 10xy^2 \quad -15xy^2$$

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Combine the like terms

$$1. \quad \underline{7x} + \underline{-5y} + \underline{4x} + \underline{4y} =$$
$$\underline{3x} + \underline{-1y} = \underline{3x - 1y}$$

$$2. \quad \underline{4x^2} + \underline{3x} + \underline{-5x^2} + \underline{-5x} + \underline{1x} =$$
$$\underline{-1x^2} + \underline{-1x} = \underline{-1x^2 - 1x}$$

$$3. \quad \underline{1x^2} + \underline{7x^2} + \underline{-1x^2} =$$
$$\underline{7x^2}$$

$$4. \quad \underline{6xy^2} + \underline{9xy^2} + \underline{-3x^2y} + \underline{5x^2y} =$$
$$\underline{15xy^2} + \underline{2x^2y}$$

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$$5. \quad (-y) + 4 + (-7x) + (-7y) + y + 2 =$$

$$-7y + -7x + 2 = 2 + 7x + -7y$$

$$6. \quad 3x^3 + 4x^2 + 5x + 1 + 6x^3 + 8x^2 + 2x + 3 =$$

$$9x^3 - 4x^2 - 7x + 4$$

$$9x^3 + -4x^2 + -7x + 4$$

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Obj. Combine like terms with Parenthesis

Distributive Property

$$4(x + 5) = 4x + 20$$

thinking $4 \cdot x + 4 \cdot 5$

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

$$5(x + 6) = 5x + 30$$

$$-8(x + 9) = -8x + 72$$

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Combine like terms with parenthesis

1. + -
2. Distribute
3. Combine Like terms

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

$$\cancel{2x} + \cancel{5x} + \boxed{20} + \cancel{3x} + \boxed{15} =$$

$$10x - 5 = 10x - 5$$

$$3x + 2(x + 3) - 5(x - 1) =$$

$$\cancel{3x} + \cancel{2x} + \underline{6} + \cancel{-5x} + \underline{5} = \textcircled{11}$$

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$$7 - 2(x - 2) + 1x =$$

$$\underline{7} + \cancel{-2x} + \underline{4} + \cancel{1x} =$$

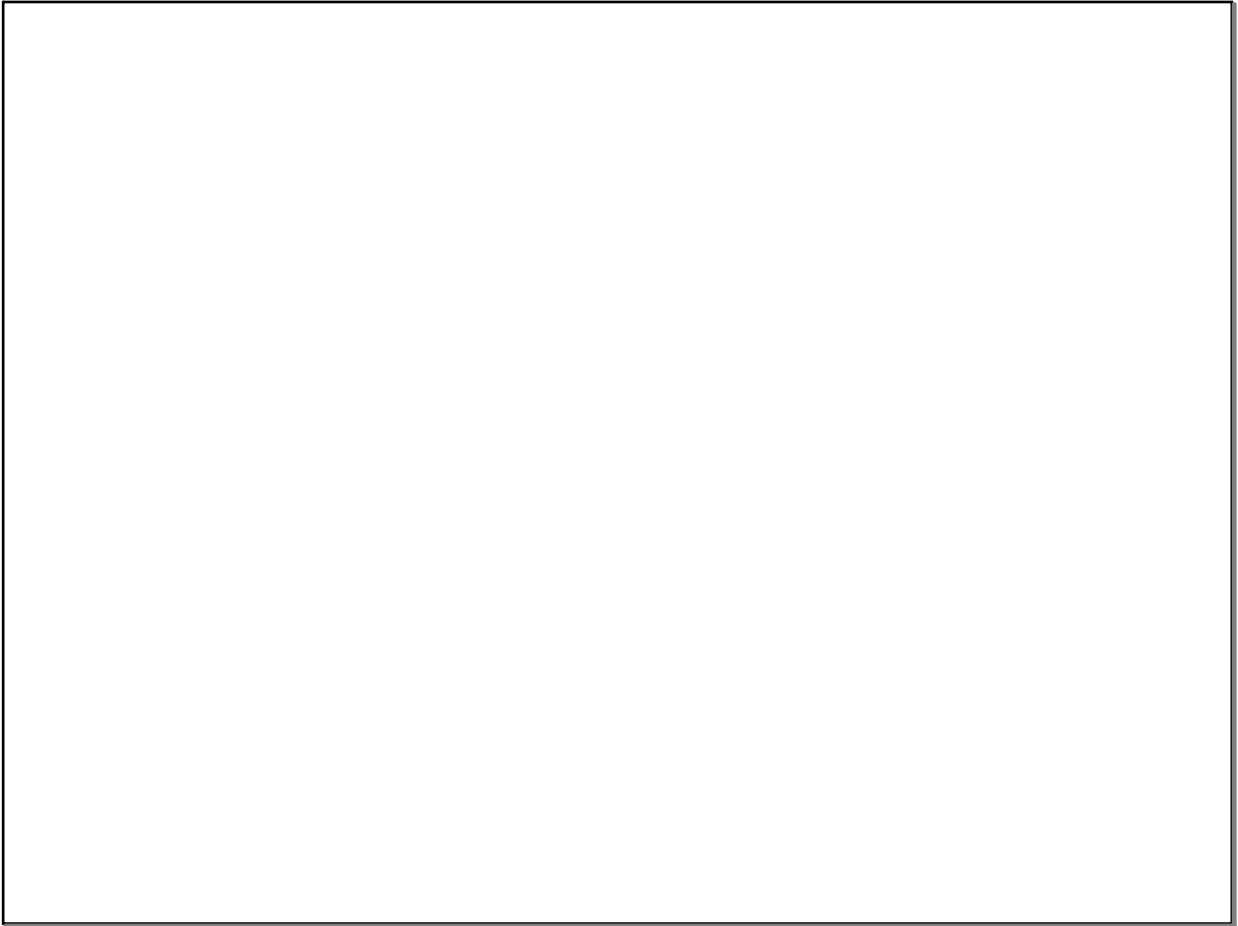
$$-1x + 11 = 11 - 1x$$

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

$$\cancel{x} + \cancel{6} + \cancel{-3x} + \underline{12} + \cancel{-6} + \underline{2x} =$$

$$\textcircled{12}$$

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