Name_____ Date:. _____

Algebra 1- Worksheet Polynomials

Subtracting Polynomials

RULE: To subtract two polynomials, add the opposite of the 2ⁿᵈ polynomial

Steps 1 switch all the signs in the 2ⁿᵈ polynomial to their opposites
Step 2 line up like terms vertically, then add them together.

Watch the video and **Study the example** before you start the exercise.

WATCH VIDEO >>>>>>

EXAMPLE:

SUBTRACT $(15x - 8) - (9a - 3)$

Notice the sign of 9a and 3 are change to
to their opposite below.

$$15a - 8$$
$$\underline{-9a + 3}$$
$$\boxed{6a - 5}$$

Complete the exercise below #1 - 4

1) Subtract $(x - 11) - (-4x + 5)$

$$x - 11$$
$$\underline{4x - 5}$$

2) Subtract $(5x^3 + x - 4) - (3x^3 + 5x - 5)$
Finish setting up the problem below then
add the opposite of the second polynomial

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

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3. Subtract $(-13x^5 - 6x - 1) - (-3x^5 - 10x + 3)$

$$-13x^5 - 6x - 1$$
$$\underline{\ 3x^5 + 10x - 3\ }$$

4. Subtract $(8x - 4y + 9) - (-2x + y + 4)$
Finish setting up the problem below
Then add the opposite.

$$8x - 4y + 9$$

$$\underline{\hspace{3cm}}$$