$3y-5$

[black rectangle]

$y+2$ $y+2$

$3y-5$

$(3y-5)+3y-5+y+2+y+2)$

$8y-6$ $-10+2$

-8

Use the expression $7x^2 + 3 - 4x - 6 + 2x^2 + x$ to answer the following questions:

1.) How many terms are in the unsimplified expression? __6__

2.) List the variable terms. __$7x^2, -4x, 2x^2, x$__

3.) List the coefficients. __$7, -4, 2, 1$__

4.) Simplify the expression. __$9x^2 - 3x - 3$__

5.) Evaluate the expression if x = -2. __39__

$$9(-2)^2 - 3(-2) - 3$$
$$9(4) - 3(-2) - 3$$
$$36 + 6 - 3$$
$$42 - 3$$
$$39$$

Distribute AND Combine!	To **simplify an expression** means to ensure there are **no parentheses** and **no like terms**. In order to do this, distribute first (if needed), then combine like terms.
Examples	**19.** $8(2x - 3) - 6x$ $16x - 24 - 6x$ $10x - 24$ **20.** $9(2k - 4) - 2(7k - 12)$ $18k - 36 - 14k + 24$ $4k - 12$
$-x(x+4)$	**21.** $10 - (y - 6) - y$ $10 - 1(y - 6) - y$ $10 - y + 6 - y$ $-2y + 16$ **22.** $6 + 8(4w - 7) - (2w + 1)$ $6 + 32w - 56 - 2w - 1$ $30w - 51$