Simplifying Algebraic Expression Notes

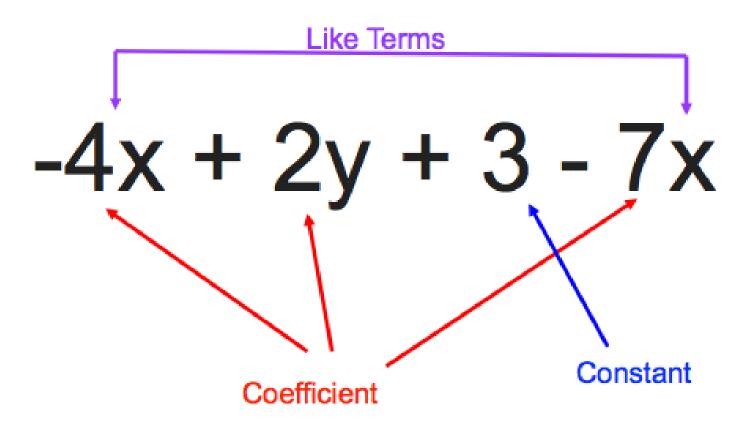
Vocabulary

Term: each part of an algebraic expression separated by addition/subtraction

Like Terms: terms that contain the same variable to the same power

Coefficient: the number part of the term that contains a variable

Constant: a term without a variable



This expression contains four terms. It is helpful to change subtraction into plus negative when identifying the parts.

An expression in simplest form has

- 1) no like terms
- 2) no parentheses
- you must combine all like terms and use the distributive property when simplifying an expression
- watch out for the hidden "1" infront of a variable or a parenthesis
- consider changing subtraction to "plus a negative" to avoid errors

Simplify each expression.

$$\frac{1}{y} + -2(x + -3y)$$

$$\frac{1}{7}$$
 + -2 × + 6 γ

$$-2x + 7y$$

0 5

$$-3(1m+1)+4m$$

$$-3m + 3 + 4m$$

$$1m + 3$$

Simplify each expression.

3)
$$-3n(4n+6)$$

$$-12n^{3} + -18n$$
 $-3.4.n.n$

$$-1\omega(-6 + -1\omega)$$

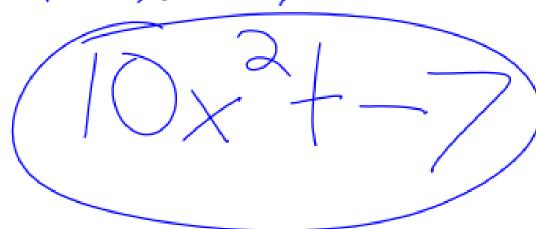
 $-6\omega + 1\omega^{3}$

Simplify each expression.

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

$$-2+-1\times+-5$$

6)
$$-2x(-5x+4)+8x-7$$



Write a expression in simplest form that represents the total amount.

7) Becky scored 'g' goals this season. Samantha scored 4 times as many as Becky. Tina scored 3 fewer goals than Becky.

Write a expression in simplest form that models the area of the shape.

