**Review of Basic Algebra**

State the name of the key features in the following expression:

$$3xy^{2}+5x^{2}y-4$$

**Like Terms** 🡪 terms that have the same \_\_\_\_\_\_\_\_\_\_\_ coefficient.

 Ex: $4xy^{2}$ and \_\_\_\_\_\_\_

 $-3.5x^{4}$ and \_\_\_\_\_\_\_

**Constants** 🡪 terms that have no \_\_\_\_\_\_\_\_\_\_\_\_ coefficient.

 Ex: 8, 12, -58, \_\_\_\_\_

**Simplifying** 🡪 the mathematical procedure of reducing the number of

 terms and operations in an expression; usually involves

 combining \_\_\_\_\_\_ terms.

**Distributive Law** 🡪 a mathematical procedure used to multiply a

 single term by a polynomial in brackets.

 Ex: Expand and simplify the following expressions using the distributive law.

 a) $3x(2x^{2}-5y)$ b) $3\left(x+2x^{2}\right)-x(4x-1)$

**Practice**

Use the distributive law to expand and simplify the following:

a) $(x-3)(x+8)$

b) $(3x-y)(2x^{2}+3y-4xy)$

c) $(x+y+z)(2x-3y+5z)$

Homework: pg 88 #2, 3, 4ac, 5ac, 6ace, 8ac, 9, 11, 12, (17a)