Then, indicate the expressions with similar variables and add them all as follows,

$$-7x^{2} + 4x - 1 - x^{2} - 1 + 6x^{2} + 4x$$

$$-2x^{2} + 4x - 1 - 1 + 4x$$

$$-2x^{2} + 4x - 1 - 1 + 4x$$

$$-2x^{2} + 8x - 1 - 1$$

$$-2x^{2} + 8x - 1 - 1$$

$$-2x^{2} + 8x - 2$$

Therefore, the sum of the given algebraic expressions is  $-2x^2 +$ 8x - 2.

4. Find the sum of the following expressions:  $(6x - 4x^2)$ , Add up all the algebraic expressions as follows,  $(6x-4x^2)(1+x)+(8x^2-1)$ Then, indicate the expressions all as follows. (1+x), and  $(8x^2-1)$ .

## Solution:

Preview 
$$(6x - 30) + (8x^2 - 1)$$

them all as follows,

$$6x - 4x^{2} + 1 + x + 8x^{2} - 1$$

$$4x^{2} + 6x + 1 + x - 1$$

$$4x^{2} + 6x + 1 + x - 1$$

$$4x^{2} + 7x + 1 - 1$$

$$4x^{2} + 7x + 1 - 1$$

$$4x^{2} + 7x + 0$$

Therefore, the sum of the given algebraic expressions is  $4x^2 + 7x$ .