## **LIKE TERMS**

Like-terms contain the same pronumerals with the same powers:

```
examples: 3x and 7x
2ab \text{ and } -9ab
x^2 \text{ and } 5x^2
3 \text{ and } 7 \text{ are like terms}
2x^4 \text{ and } -5x^4
```

(the pronumerals do not need to be in the same order, so 4xy and 8yx are also like-terms)

## **LIKE-TERMS**

Like-terms can be combined when they are added or subtracted to simplify an expression:

Examples: Simplify the following expressions

$$2x + 5x = 7x$$

$$5x + 3x - 2x = 6x$$

$$3xy + 5xy = 8xy$$

$$5x + x^{2} + 3x^{2} - 6x = 4x^{2} - x$$

$$2 + 3x + 2x^{2} - 5x + 7x^{2} - 1 = 9x^{2} - 2x + 1$$