

# **Unit Standard 9007**

## **SO 1-3 All criteria**

### **Activity 1**

$$4 - 6 + 10 \times 5$$

$$2 + 4x^3 - 6x^2 - 3$$

### **Activity 2**

Simplify:

$$3a + 2ab - 6a + 2b - ab$$

$$3xy + 4x - 3y - 4xy + x$$

$$a - 2 + 3a - 5$$

$$3p + 3q - 4pq - 2pq$$

Add the following expressions:

$$3a + 4ab; 3a - 4ab$$

$$a - 3; 3b + 6$$

$$a - 4; b + 5; c - 13$$

Subtract the second expression from the first.

$$a - 2; 2b + 6$$

$$a + b; 3b + 2$$

### **Activity 3**

- a) Draw Cartesian axes on a sheet of squared paper and place the following points in the plane:

(1,1), (2,1) (-1,1)

Draw a straight line through these points.

What can be said about the y-coordinate of each point on this line?

- b) Place (8,2) on the Cartesian plane.

What is the distance from (0,0) to (8,2)?

- c) Place (6,-2) on the Cartesian plane. What is the distance from (0,0) to (6,-2)?

What is the distance from (0,2) to (6,-2)?