

## 1 Simple Equations

$$\sqrt{x^e + y^9} = z^3$$

$$x^2 - 1 = y$$

## 2 Vectors

$$x_2 = 2$$

$$m_{12} = 5$$

$$m_{21} = 8$$

### 2.1 Magnitude

Let a vector  $x$  be:

$$x_1 = a$$

$$x_2 = b$$

$$x_3 = c$$

The magnitude of a  $3D$  vector is:

$$||x|| = \sqrt{a^2 + b^2 + c^2}$$

## 3 Linear Combination