$$A(x_1; y_1; z_1) \text{ and } B(x_2; y_2; z_2)$$

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

$$\vec{u} \begin{pmatrix} x \\ y \\ z \end{pmatrix}$$

$$||\vec{u}|| = \sqrt{x^2 + y^2 + z^2}$$