

## Vectors equations Activity

Dot Product

$$A = \sqrt{A_x^2 + A_y^2 + A_z^2}.$$

Vector component

$$\vec{A} \cdot \vec{B} = |\vec{A}| |\vec{B}| \cos \alpha,$$

Magnitude of vectors

$$A \times B = |A| |B| \sin \theta$$

Cross Product

$$\vec{A} = (A_x, A_y, A_z)$$