

Two vectors are said to be equal if, and only if, they have same magnitude and the same direction.

$$\vec{a} = \vec{b}$$

$0^\circ \leq \text{Angle between two vectors} \leq 180^\circ$

Parallel Vectors

Same direction and angle between vectors is 0°

Anti-Parallel Vectors

Opposite direction and angle between vectors is 180°

Scalar Product (Dot Product) of two Vectors

$$\vec{A} \cdot \vec{B} = |\vec{A}||\vec{B}|\cos\theta$$

$$\vec{A} \cdot \vec{B} = \vec{B} \cdot \vec{A}$$

$$\vec{A} \cdot (\vec{B} + \vec{C}) = \vec{A} \cdot \vec{B} + \vec{A} \cdot \vec{C}$$

$$\hat{i} \cdot \hat{i} = 1 \quad \hat{j} \cdot \hat{j} = 1 \quad \hat{k} \cdot \hat{k} = 1$$

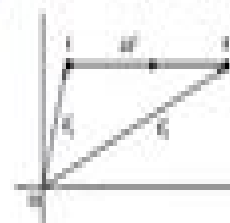
$$\hat{i} \cdot \hat{j} = 0 \quad \hat{i} \cdot \hat{k} = 0 \quad \hat{k} \cdot \hat{j} = 0$$

To find angle between two vectors

$$\cos\theta = \frac{\vec{A} \cdot \vec{B}}{|\vec{A}||\vec{B}|}$$

Displacement vector

$$\Delta \vec{r} = \vec{r}_2 - \vec{r}_1$$



$$\vec{A} \cdot \vec{A} = |\vec{A}|^2$$

Resolution of a Vector into Components

Rectangular Components



$$\vec{R} = \vec{R}_x + \vec{R}_y$$

$$\vec{R} = R \cos\theta \hat{i} + R \sin\theta \hat{j}$$

$$|\vec{R}| = \sqrt{R_x^2 + R_y^2}$$

$$|\vec{R}| \geq 0$$

$$\tan\theta = \frac{R_y}{R_x}$$

$$\hat{R} = \frac{\vec{R}}{|\vec{R}|} = \frac{R_x \hat{i} + R_y \hat{j}}{\sqrt{R_x^2 + R_y^2}}$$

Position Vector $\vec{OP} = \vec{r} = x_p \hat{i} + y_p \hat{j}$

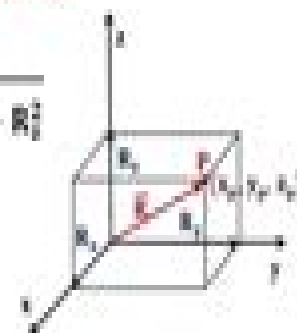
Representation of vector in 3D

$$\vec{R} = R_x \hat{i} + R_y \hat{j} + R_z \hat{k}$$

$$R = |\vec{R}| = \sqrt{R_x^2 + R_y^2 + R_z^2}$$

Position Vector

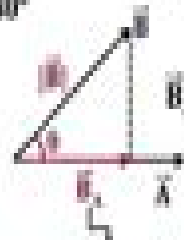
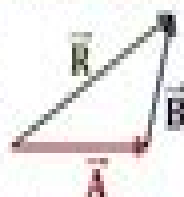
$$\vec{r} = x_p \hat{i} + y_p \hat{j} + z_p \hat{k}$$



Triangle rule of vector addition

$$\vec{A} + \vec{B} = \vec{R}$$

$$|\vec{R}| = |\vec{A}| + |\vec{B}|$$



$$B_{\parallel} = |\vec{B}| \frac{(\vec{A} \cdot \vec{B})}{|\vec{A}||\vec{B}|}$$

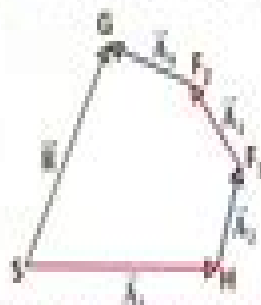
Vectors

$|\vec{A}| = \text{Magnitude of } \vec{A}$

component of B along A

Polygon rule of vector addition

$$\vec{R} = \vec{A}_1 + \vec{A}_2 + \vec{A}_3 + \vec{A}_4$$



Parallelogram rule of vector addition

$$R = \sqrt{A^2 + B^2 + 2AB\cos\theta}$$

$$\text{When } \theta = 0^\circ \quad R_{\max} = A + B$$

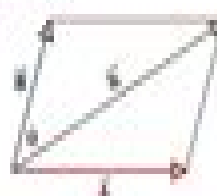
$$\text{When } \theta = 180^\circ \quad R_{\min} = |A - B|$$

$$|\vec{R}|_{\min} \leq |\vec{R}| \leq |\vec{R}|_{\max}$$

Subtraction of vectors

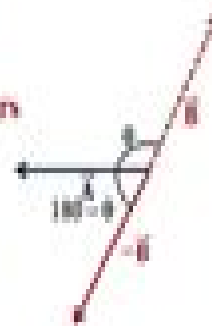
$$|\vec{A} - \vec{B}| = \sqrt{A^2 + B^2 - 2AB\cos\theta}$$

$$|A - B| \leq |\vec{A} - \vec{B}| \leq A + B$$



Zero vector

$$\vec{A} - \vec{A} = \vec{0}$$



Unit vector

$$\hat{A} = \frac{\vec{A}}{|\vec{A}|}$$

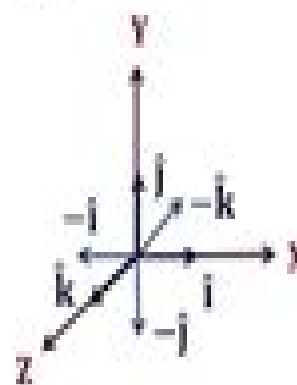
magnitude = 1

purpose is to describe a direction in space

$$|\hat{i}| = 1 = |-\hat{i}|$$

$$|\hat{j}| = 1 = |-\hat{j}|$$

$$|\hat{k}| = 1 = |-\hat{k}|$$



Multiplication of vector with real number

magnitude $|\lambda| |\vec{A}|$, direction remains the same.

Vectors Study Guide Answers

Bruce A. Chase, Peter J. Russell

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