

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



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

$0^\circ \leq$ Angle between two vectors $\leq 180^\circ$

Parallel Vectors	Anti-Parallel Vectors
Same direction and angle between vectors is 0°	Opposite direction and angle between vectors is 180°

Scalar Product (Dot Product) of two Vectors

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

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

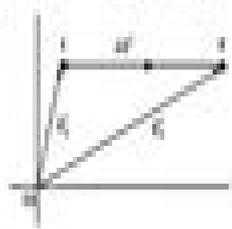
$$\vec{A} \cdot (\vec{B} + \vec{C}) = \vec{A} \cdot \vec{B} + \vec{A} \cdot \vec{C}$$

$$i \cdot i = 1 \quad j \cdot j = 1 \quad k \cdot k = 1$$

$$i \cdot j = 0 \quad i \cdot k = 0 \quad k \cdot j = 0$$

Displacement vector

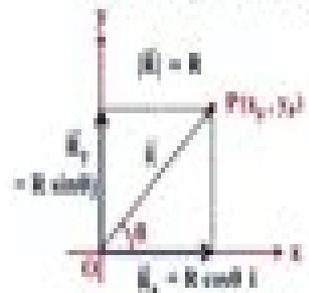
$$\Delta \vec{r} = \vec{r}_2 - \vec{r}_1$$



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

Resolution of a Vector into Components

Rectangular Components



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

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

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

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

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

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

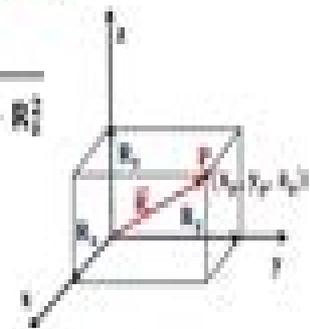
Position Vector $\vec{OP} = \vec{r} = x_p i + y_p j$

Representation of vector in 3D

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

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

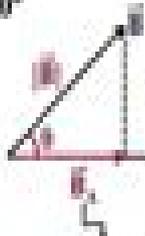
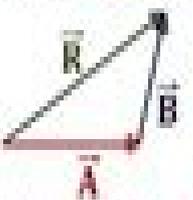
Position Vector $\vec{r} = x_p i + y_p j + z_p k$



Triangle rule of vector addition

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

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



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

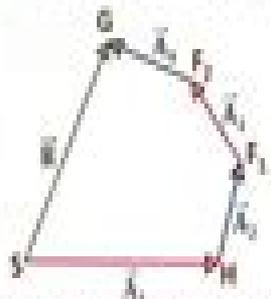
Vectors

$|\vec{A}| =$ 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

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

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

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



Zero vector

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

$|\vec{R}|_{min} \leq |\vec{R}| \leq |\vec{R}|_{max}$ **Subtraction of vectors**

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

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



Unit vector

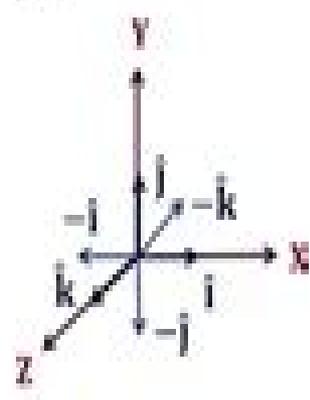
$$\hat{A} = \frac{\vec{A}}{|\vec{A}|}$$

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.

Physics Vectors Study Guide Answers

Liyong Dong



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