

Let  $\vec{a} = a_1\hat{i} + a_2\hat{j} + a_3\hat{k}$  and  $\vec{b} = b_1\hat{i} + b_2\hat{j} + b_3\hat{k}$ .  
 From article 26.1, angle between two vectors  $\vec{a}$  and  $\vec{b}$  is given by  

$$\cos \theta = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}| |\vec{b}|}$$

$$\cos \theta = \frac{a_1b_1 + a_2b_2 + a_3b_3}{\sqrt{a_1^2 + a_2^2 + a_3^2} \sqrt{b_1^2 + b_2^2 + b_3^2}}$$

### 26.13. CONDITION OF TWO VECTORS BEING PARALLEL

Let  $\vec{a} = a_1\hat{i} + a_2\hat{j} + a_3\hat{k}$  and  $\vec{b} = b_1\hat{i} + b_2\hat{j} + b_3\hat{k}$ .  
 $\vec{a}$  and  $\vec{b}$  are parallel, so  $\vec{a} = \lambda \vec{b}$ , where  $\lambda$  is a scalar.  
 or  $a_1\hat{i} + a_2\hat{j} + a_3\hat{k} = \lambda(b_1\hat{i} + b_2\hat{j} + b_3\hat{k})$   
 Equating the coefficients of  $\hat{i}, \hat{j}, \hat{k}$  from both sides, we get  
 $a_1 = \lambda b_1, a_2 = \lambda b_2, a_3 = \lambda b_3$   
 This gives  $\frac{a_1}{b_1} = \frac{a_2}{b_2} = \frac{a_3}{b_3}$   
 This is the required condition.

### 26.14. CONDITION OF TWO VECTORS BEING PERPENDICULAR

Let  $\vec{a} = a_1\hat{i} + a_2\hat{j} + a_3\hat{k}$   
 and  $\vec{b} = b_1\hat{i} + b_2\hat{j} + b_3\hat{k}$   
 Then, we know that  
 $\vec{a} \cdot \vec{b} = a_1b_1 + a_2b_2 + a_3b_3$   
 $\vec{a}$  and  $\vec{b}$  are perpendicular to each other  
 so  $\vec{a} \cdot \vec{b} = 0$   
 so  $a_1b_1 + a_2b_2 + a_3b_3 = 0$   
 This is the required condition.

### 26.15. AN IMPORTANT RESULT

For any vector  $\vec{r}$   

$$\vec{r} = (\vec{r} \cdot \hat{i})\hat{i} + (\vec{r} \cdot \hat{j})\hat{j} + (\vec{r} \cdot \hat{k})\hat{k}$$

Let  $\vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$   
 Then  $\vec{r} \cdot \hat{i} = x, \vec{r} \cdot \hat{j} = y, \vec{r} \cdot \hat{k} = z$   
 $\therefore \vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$   
 which is the same as  $\vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$   
 which is the same as  $\vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$   
 which is the same as  $\vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$

### 26.16. RESOLUTION OF A VECTOR

Let  $\vec{a}$  be the resolved part of a vector  $\vec{r}$  along and perpendicular to the direction of  $\vec{b}$ .  
 Let the vector  $\vec{r}$  be inclined at an angle  $\theta$  with  $\vec{b}$ .  
 Then the resolved part or vector component of  $\vec{r}$  along  $\vec{b}$  is



$$a = |\vec{r}| \cos \theta$$

$$= \frac{\vec{r} \cdot \vec{b}}{|\vec{b}|}$$

and resolved part or vector component of  $\vec{r}$  perpendicular to  $\vec{b}$  is  
 $b = |\vec{r}| \sin \theta$   
 $= \frac{|\vec{r}| |\vec{b}| \sin \theta}{|\vec{b}|}$   
 $= \frac{|\vec{r}| |\vec{b}| \sin \theta}{|\vec{b}|}$

$$b = \frac{|\vec{r}| |\vec{b}| \sin \theta}{|\vec{b}|}$$

$$= \frac{|\vec{r}| |\vec{b}| \sin \theta}{|\vec{b}|}$$

vector component of  $\vec{r}$  perpendicular to  $\vec{b} = \frac{|\vec{r}| |\vec{b}| \sin \theta}{|\vec{b}|}$

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**AN Whitehead**



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### **Table of Contents Kc Sinha Mathematics Class 12**

1. Understanding the eBook Kc Sinha Mathematics Class 12
  - The Rise of Digital Reading Kc Sinha Mathematics Class 12
  - Advantages of eBooks Over Traditional Books
2. Identifying Kc Sinha Mathematics Class 12
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Kc Sinha Mathematics Class 12
  - User-Friendly Interface
4. Exploring eBook Recommendations from Kc Sinha Mathematics Class 12
  - Personalized Recommendations
  - Kc Sinha Mathematics Class 12 User Reviews and Ratings
  - Kc Sinha Mathematics Class 12 and Bestseller Lists

5. Accessing Kc Sinha Mathematics Class 12 Free and Paid eBooks
  - Kc Sinha Mathematics Class 12 Public Domain eBooks
  - Kc Sinha Mathematics Class 12 eBook Subscription Services
  - Kc Sinha Mathematics Class 12 Budget-Friendly Options
6. Navigating Kc Sinha Mathematics Class 12 eBook Formats
  - ePub, PDF, MOBI, and More
  - Kc Sinha Mathematics Class 12 Compatibility with Devices
  - Kc Sinha Mathematics Class 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Kc Sinha Mathematics Class 12
  - Highlighting and Note-Taking Kc Sinha Mathematics Class 12
  - Interactive Elements Kc Sinha Mathematics Class 12
8. Staying Engaged with Kc Sinha Mathematics Class 12
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Kc Sinha Mathematics Class 12
9. Balancing eBooks and Physical Books Kc Sinha Mathematics Class 12
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Kc Sinha Mathematics Class 12
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Kc Sinha Mathematics Class 12
  - Setting Reading Goals Kc Sinha Mathematics Class 12
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Kc Sinha Mathematics Class 12
  - Fact-Checking eBook Content of Kc Sinha Mathematics Class 12
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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