

VECTORS

Vector
 P₀ which have magⁿ, unit and must follow Triangle law of Addition eg force, velocity, etc

Scalar
 P₀ which have magⁿ and unit. eg mass, Temp

Vector Representation

Mathematically:
 $\vec{A} = A \cdot \hat{A}$
 Vector \downarrow direction only
 magnitude

Graphically:



Scalar can be

Type of vectors:

- ① Equal vector - Same magnitude and dirⁿ.
- ② Parallel vector - Having same dirⁿ magnitude may or may not equal
- ③ Anti-parallel vector: Opposite dirⁿ magnitude may or may not equal
- ④ Zero vector / Null vector which have zero magnitude
- ⑤ Negative vector Same magnitude but opposite dirⁿ.
- ⑥ Collinear vector which are in same line
- ⑦ Coplanar vector which are in same plane.
- ⑧ Unit vector unit magnitude and represent dirⁿ.

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

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

x -axis $\rightarrow \hat{i}$
 y -axis $\rightarrow \hat{j}$

Basic Properties of Vector:

- ① Multiplication of vector with scalar magⁿ \rightarrow change dirⁿ \rightarrow same
- ② Addition of vector with scalar not possible
- ③ Addition of two vectors
 $\vec{F}_1 = 3\hat{i}$; $\vec{F}_2 = 4\hat{j}$
 $\vec{F}_{net} = 3\hat{i} + 4\hat{j}$
 $= 5\hat{i}$

Direction of Vector from x-axis, y-axis and z-axis



$$\vec{A} = A_x \hat{i} + A_y \hat{j}$$

$$|\vec{A}| = \sqrt{A_x^2 + A_y^2}$$

$$\cos \alpha = \frac{A_x}{|\vec{A}|}$$

$$\tan \alpha = \frac{A_y}{A_x}$$

Ma40sa Vectors Notes Mr F Teach

B Lingard



Ma40sa Vectors Notes Mr F Teach:

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Table of Contents Ma40sa Vectors Notes Mr F Teach

1. Understanding the eBook Ma40sa Vectors Notes Mr F Teach
 - The Rise of Digital Reading Ma40sa Vectors Notes Mr F Teach
 - Advantages of eBooks Over Traditional Books
2. Identifying Ma40sa Vectors Notes Mr F Teach
 - 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 Ma40sa Vectors Notes Mr F Teach
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ma40sa Vectors Notes Mr F Teach
 - Personalized Recommendations
 - Ma40sa Vectors Notes Mr F Teach User Reviews and Ratings

- Ma40sa Vectors Notes Mr F Teach and Bestseller Lists
- 5. Accessing Ma40sa Vectors Notes Mr F Teach Free and Paid eBooks
 - Ma40sa Vectors Notes Mr F Teach Public Domain eBooks
 - Ma40sa Vectors Notes Mr F Teach eBook Subscription Services
 - Ma40sa Vectors Notes Mr F Teach Budget-Friendly Options
- 6. Navigating Ma40sa Vectors Notes Mr F Teach eBook Formats
 - ePub, PDF, MOBI, and More
 - Ma40sa Vectors Notes Mr F Teach Compatibility with Devices
 - Ma40sa Vectors Notes Mr F Teach Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ma40sa Vectors Notes Mr F Teach
 - Highlighting and Note-Taking Ma40sa Vectors Notes Mr F Teach
 - Interactive Elements Ma40sa Vectors Notes Mr F Teach
- 8. Staying Engaged with Ma40sa Vectors Notes Mr F Teach
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ma40sa Vectors Notes Mr F Teach
- 9. Balancing eBooks and Physical Books Ma40sa Vectors Notes Mr F Teach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ma40sa Vectors Notes Mr F Teach
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ma40sa Vectors Notes Mr F Teach
 - Setting Reading Goals Ma40sa Vectors Notes Mr F Teach
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ma40sa Vectors Notes Mr F Teach
 - Fact-Checking eBook Content of Ma40sa Vectors Notes Mr F Teach
 - 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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