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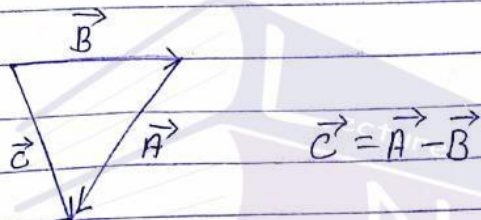
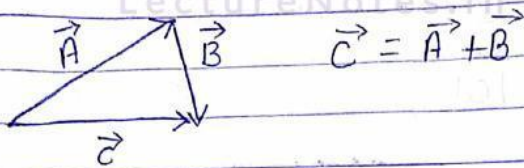
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Vector Representation \vec{A} or **A** \rightarrow Bold letter

Unit Vector \hat{a}_x or a_x

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



Multiplication

Dot } Both useful for prediction of angle
Cross } b/w vector

$$\vec{A} \cdot \vec{B} = AB \cos \theta_{AB}$$
$$\vec{A} \times \vec{B} = AB \sin \theta_{AB} \hat{a}_n \rightarrow (\text{unit vector } \perp \text{ to plane})$$

Numericals :-

- i) If $\vec{A} = 10\hat{a}_x - 4\hat{a}_y + 6\hat{a}_z$ and $\vec{B} = 2\hat{a}_x + \hat{a}_y$ find
- component of \vec{A} along \hat{a}_y
 - find magnitude of $3\vec{A} - \vec{B}$
 - unit vector along $\vec{A} + 2\vec{B}$

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