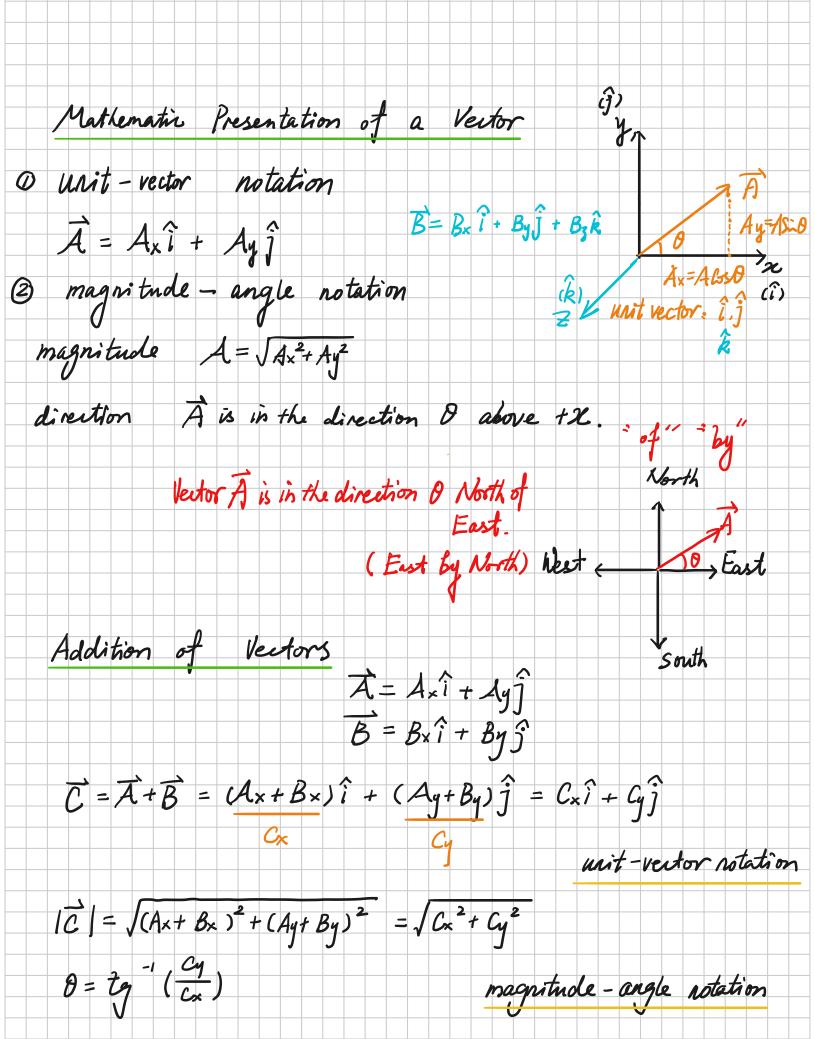
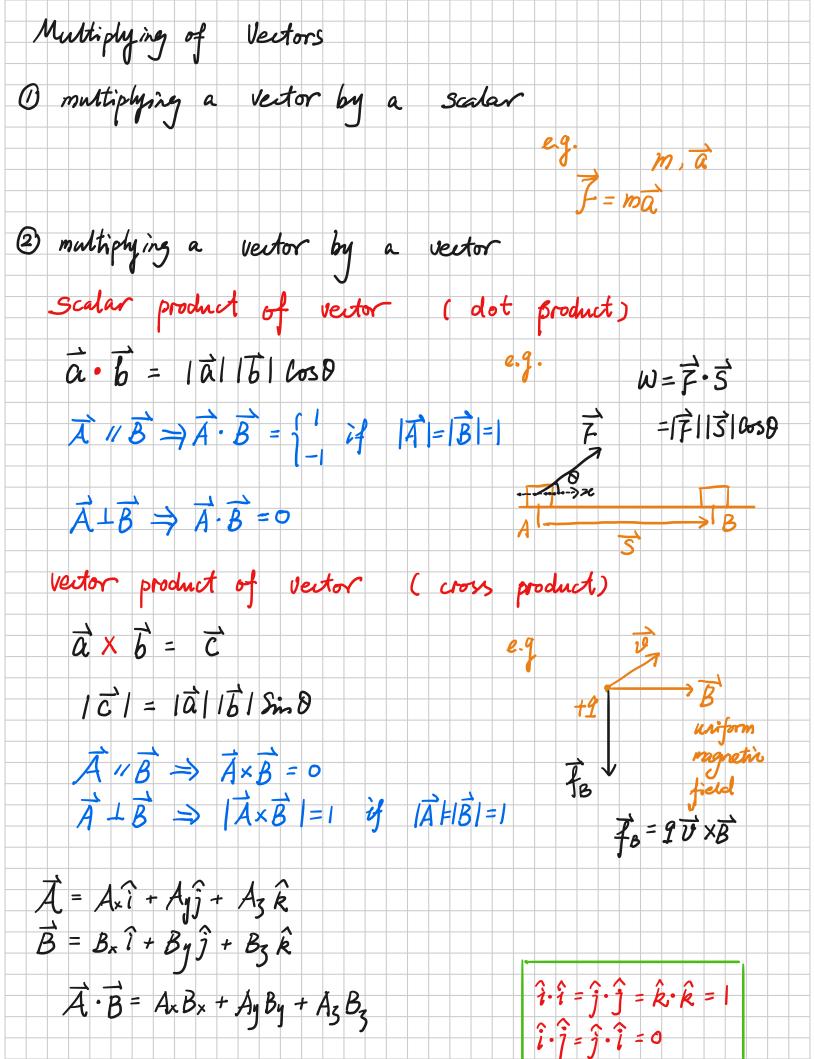
Mathematic Presentation of a Vector





$$\vec{A} \times \vec{B} = (A_1 B_3 - A_3 B_4) \hat{i}$$

$$+ (A_3 B_2 - A_2 B_3) \hat{j}$$

$$+ (A_4 B_4 - A_4 B_3) \hat{j}$$

$$+ (A_4 B_4 - A_4 B_3) \hat{j}$$

$$+ (A_5 B_4 - A_4 B_3) \hat{k}$$

$$\hat{k} \times \hat{i} = \hat{j}, \hat{k} \times \hat{k} = 0$$

$$\hat{k} \cdot \hat{j} = \hat{k} \cdot \hat{k} \times \hat{j} = -\hat{k}$$

$$\hat{k} \times \hat{i} = \hat{j}, \hat{k} \times \hat{k} = -\hat{j}$$

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$$\hat{k} \times \hat{k} = 0$$

$$\hat{k} \times$$