

CHAPTER 10

1. Show that vectors \vec{A} and \vec{B} are orthogonal if $\vec{A} \cdot \vec{B} = 0$.
 (a) Show that $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

Answer: $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

- (b) Show that $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

Answer: $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

2. (a) Show that $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.
 (b) Show that $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

Answer: $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

- (c) Show that $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

Answer: $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

Answer: $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

3. Consider the vectors \vec{A} , \vec{B} , \vec{C} , \vec{D} , \vec{E} , \vec{F} , \vec{G} , \vec{H} , \vec{I} , \vec{J} , \vec{K} , \vec{L} , \vec{M} , \vec{N} , \vec{O} , \vec{P} , \vec{Q} , \vec{R} , \vec{S} , \vec{T} , \vec{U} , \vec{V} , \vec{W} , \vec{X} , \vec{Y} , \vec{Z} .

- (a) Show that $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

Answer: $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

- (b) Show that $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

Answer: $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

4. Show that $\vec{A} \cdot \vec{B} = 0$ if and only if $\vec{A} \cdot \vec{B} = 0$.

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