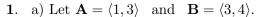




Vector Components



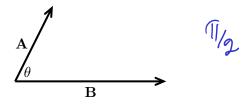
1. a) Let
$$\mathbf{A} = \langle 1, 3 \rangle$$
 and $\mathbf{B} = \langle 3, 4 \rangle$.
(i) Find the component of \mathbf{A} in the direction of \mathbf{B} .

(ii) Find the component of **B** in the direction of **A**.
$$\mathbb{R}[\omega\theta] = \langle 9_{10}, \frac{12}{510} \rangle$$

b) Let
$$\mathbf{A} = \langle 3, 5, 7 \rangle$$
 and $\mathbf{B} = \langle 3, 4, 0 \rangle$. Find the component \mathbf{A} in the direction of \mathbf{B} .

3. For which angle θ is the component of **A** in the direction of **B** equal to 0.





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