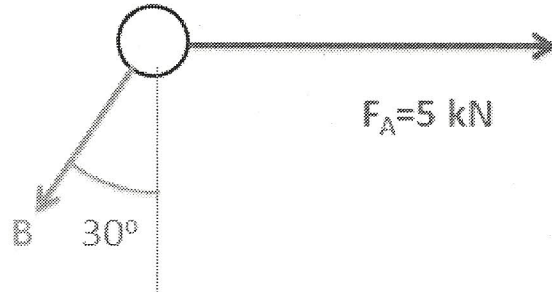


Find the dot product of force vector A with the unit vector shown with direction B.



$$A \cdot B = |A||B| \cos(\theta)$$

$$A \cdot B = (5 \text{ kN})(1) \cos(-120^\circ)$$

$$A \cdot B = -2.5 \text{ kN}$$