

4. Find the direction (in degrees) of $\vec{v} = \langle -2, -3 \rangle$.

5. Let $\vec{u} = \langle 3, -1 \rangle$ and $\vec{v} = \langle 2, 4 \rangle$.

a) Find $\vec{u} \cdot \vec{v}$.

b) Find the angle between \vec{u} and \vec{v} .

6. Determine if $\vec{u} = \langle 2, -5 \rangle$ and $\vec{v} = \langle 10, -4 \rangle$ are orthogonal.

Q: A man while looking at a photograph said, "Brothers and sisters have I none. That man's father is my father's son." Who was the person in the photograph?