12. [-/1 Points]

DETAILS

LARTRIG10 3.4.029. [3883139]

Find the angle θ (in radians) between the vectors. (Round your answer to two decimal places.) $\mathbf{u} = \langle \mathbf{2}, 0 \rangle \qquad \qquad \mathbf{cos} \Theta = \frac{\mathbf{u} \cdot \mathbf{v}}{\mathbf{v} \cdot \mathbf{v}} = \frac{\mathbf{0} + \mathbf{0}}{\mathbf{v}} = \mathbf{0}$

$$\mathbf{u} = \langle \mathbf{2}, 0 \rangle$$

$$\mathbf{v} = \langle 0, -4 \rangle$$

Find $\mathbf{u} \cdot \mathbf{v}$, where θ is the angle between \mathbf{u} and \mathbf{v} .

$$\|\mathbf{u}\| = 16, \|\mathbf{v}\| = 144, \theta = \frac{3\pi}{4}$$

Find the projection of \boldsymbol{u} onto $\boldsymbol{v}.$

$$\mathbf{u} = \langle 4, 4 \rangle$$

$$\mathbf{v} = \langle 6, 1 \rangle$$