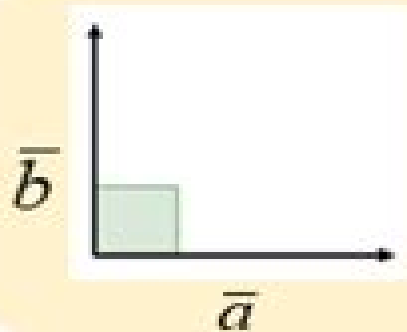# Dot Product

If $\bar{a} = \langle a_1, a_2, a_3 \rangle$ and $\bar{b} = \langle b_1, b_2, b_3 \rangle$ then the dot product is

$$\bar{a} \bullet \bar{b} = a_1 b_1 + a_2 b_2 + a_3 b_3$$

If θ is the angle between $\bar{a}$ and $\bar{b}$ then

$$\bar{a} \bullet \bar{b} = |\bar{a}||\bar{b}|\cos\theta$$

$\bar{a} \bullet \bar{b}$ are orthogonal (perpendicular) if and only if $\bar{a} \bullet \bar{b} = 0$

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simulation to help solve basic to more advanced problems Michael W Roth PhD serves as Dean of the School of STEM and Business at Hawkeye Community College in Waterloo Iowa He was most recently Chair for three years at Northern Kentucky University s Department of Physics Geology and Engineering Technology and holds several awards for teaching excellence

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