

11.2. Visualize: Please refer to Figure EX11.2.

Solve: (a) $\vec{A} \cdot \vec{B} = AB \cos \alpha = (3)(4) \cos 110^\circ = -4.1.$

(b) $\vec{C} \cdot \vec{D} = CD \cos \alpha = (4)(5) \cos 180^\circ = -20.$

(c) $\vec{E} \cdot \vec{F} = EF \cos \alpha = (4)(3) \cos 30^\circ = 10.4.$