Problem 11.7

$\left|\vec{A}x\vec{B}\right| = \vec{A}\bullet\vec{B}$ implies that:

$$\left|\vec{A}\right|\left|\vec{B}\right|\sin\theta = \left|\vec{A}\right|\left|\vec{B}\right|\cos\theta$$

$$\Rightarrow \quad \frac{\sin\theta}{\cos\theta} = 1 \qquad (= \tan\theta)$$

$$\Rightarrow \quad \theta = 45^{\circ}$$