

(a) Using Theorem 6, we have  $|\mathbf{u} \times \mathbf{v}| = |\mathbf{u}||\mathbf{v}| \sin \theta = (2)(3) \sin 60^\circ = 3\sqrt{3}$ .

(b) By the right-hand rule,  $\mathbf{u} \times \mathbf{v}$  is directed into the screen.