13.35. **Visualize:** Please refer to Figure Ex13.35.

Solve: **(a)** The magnitude of $\vec{A} \times \vec{B}$ is $AB\sin\alpha = (6)(4)\sin 120° = 20.78$. The direction of $\vec{A} \times \vec{B}$ is given by the right hand rule. To curl our fingers from $\vec{A}$ to $\vec{B}$, we have to point our thumb out of the page. Thus, $\vec{A} \times \vec{B} =$ (20.78, out of the page).

(b) $\vec{C} \times \vec{D} = ((6)(4)\sin 90°,$ into the page) = (24, into the page).