Vectors - cross product and 3D $\,$

- 1. find $\vec{A} \times \vec{B}$ in fig.1
- 2. for $\vec{a}=3\hat{i}+6\hat{j}+3\hat{k}$ and $\vec{b}=4\hat{i}-5\hat{j}+5\hat{k}$ find (a) the angle between \vec{a} and \vec{b} and (b) $\vec{a}\times\vec{b}$

3. for $\vec{a}=3\hat{i}-\hat{j},\,\vec{b}=2\hat{i}+4\hat{j}$ and $\vec{c}=7\hat{k}-\hat{j}$ find $\left(\vec{a}\times\vec{b}\right)\cdot\vec{c}$