1. Determine the $x$ and $y$ components of the 650 lb force.

2. Use Cartesian components to express the vector projection of the force $\vec{F}_{AB}$ along the direction from $A$ to $C$.

3. Given that

$$\vec{A} = \hat{i} + \hat{j}$$
$$\vec{B} = 7\hat{i} - \hat{k}$$
$$\vec{C} = 6\hat{i} - \hat{j} - 2\hat{k}$$

What is $\vec{B} \times (\vec{C} \times \vec{A})$?