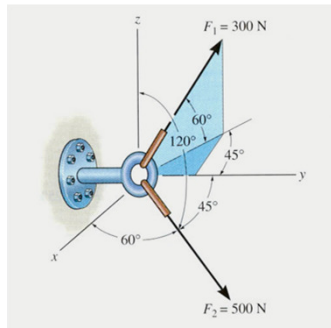## EXAMPLE

Given: Two forces **F** and **G** are applied to a hook. Force **F** is shown in the figure and it makes 60° angle with the X-Y plane. Force **G** is pointing up and has a magnitude of 80 lb with $\alpha = 111°$ and $\beta = 69.3°$.

Find: The resultant force in the Cartesian vector form.

GROUP PROBLEM SOLVING

Given: The screw eye is subjected to two forces.

Find: The magnitude and the coordinate direction angles of the resultant force.