Question 2:

The force acting on the cantilever beam shown below is given in component form. Redraw the diagram with the force given in magnitude and direction form.

\[ F = [-300, -250] \text{ N} \]

\[ F = \sqrt{250^2 + 300^2} = 390.5 \text{ N} \]

\[ \Theta = \tan^{-1} \left( \frac{250}{300} \right) = 39.8^\circ \]