Answer the following questions:

Question One (10 marks)

If $\theta = 60^\circ$ and F = 20 KN, determine the magnitude of the resultant force and its direction measured clockwise from positive x-axis.
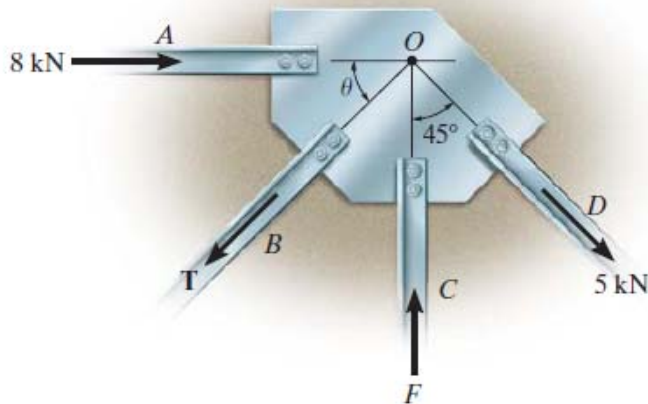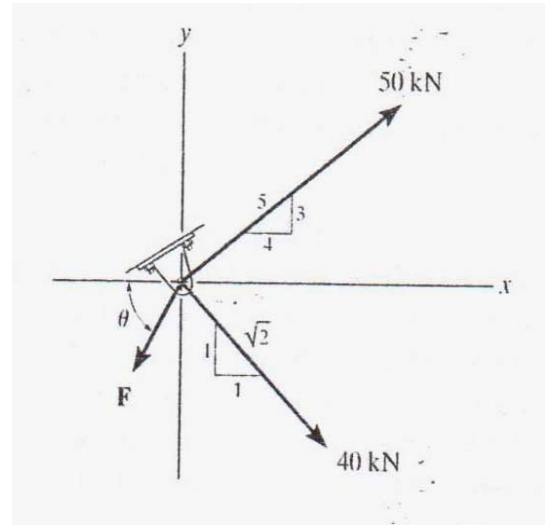
Question Two: (10 marks)
The members of a truss are connected to the gusset plate. If the forces are concurrent at point O, determine the magnitudes of F and T for equilibrium. Take $\theta = 30°$.