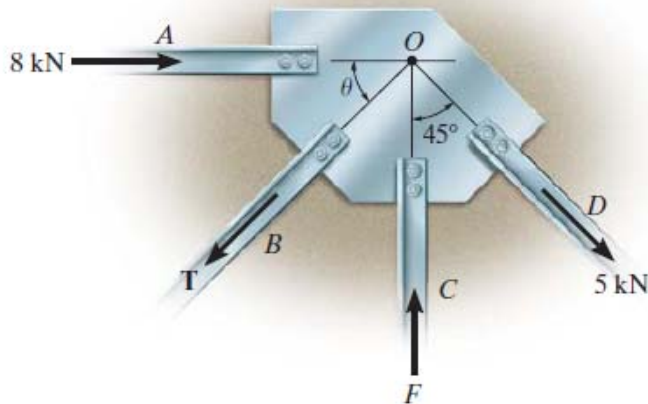
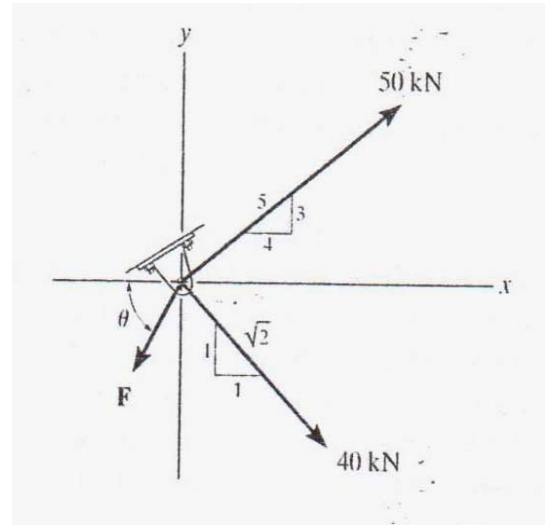
	Alexandria Higher Institute of Engineering & Technology (AIET)		
	General		Preparatory Year
	ME001	Mechanics I	Mid Term, Aug.,6 ,2013
	Examiners:	Dr. Rola Afify and committee	Time: 1 hr

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 $\theta = 30^\circ$.