An eyebolt has two cables attached to it, as shown.



Cable 1 exerts a force of Input\_1 kN in a direction that is 45° from the *x*-axis. Cable 2 exerts a force of Input\_2 kN in a direction that is 60° from the *y*-axis.

a.) What is the magnitude of the resultant force (kN)?

b.) What is the angle that the resultant force makes with respect to the *x*-axis (in degree, measured counterclockwise)?