Exercise

Static Equilibrium

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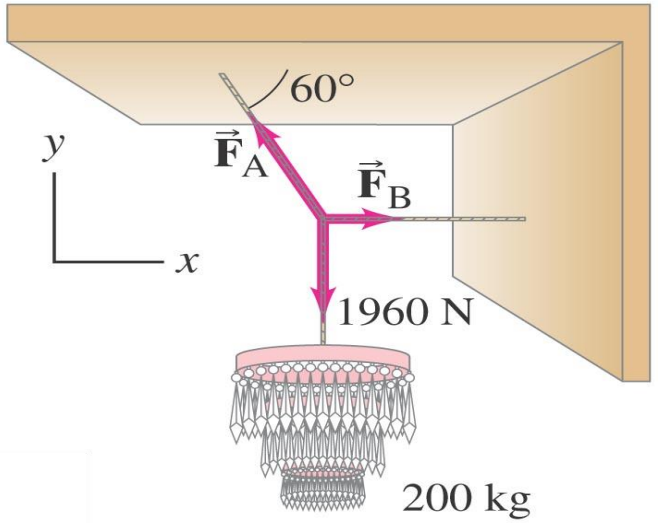
Exercise 1

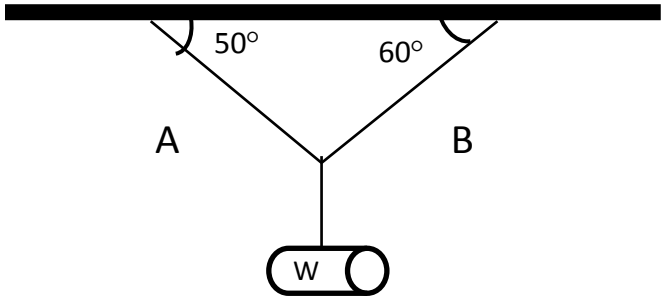
Determine the tension of cable A and cable B that are connected to the vertical cable as shown in figure, Given the mass of chandelier is 200 kg.



(F_A = 2263.213 N, F_B = 1131.607 N)

Exercise 2

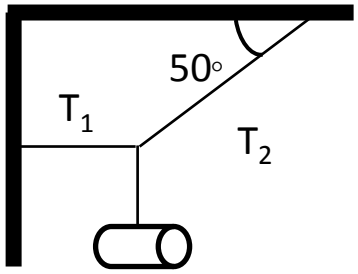
The tension in cord A in figure is 30 N. Find the tension in B and the value of W.



(T_B = 38.567 N & W = 56.381 N)

Exercise 3

Refer in figure below, find the values of T_1 and T_2 if the weight of wooden cylinder is 600N.



(T_1 = 503.46 N & T_2 = 783.244 N)