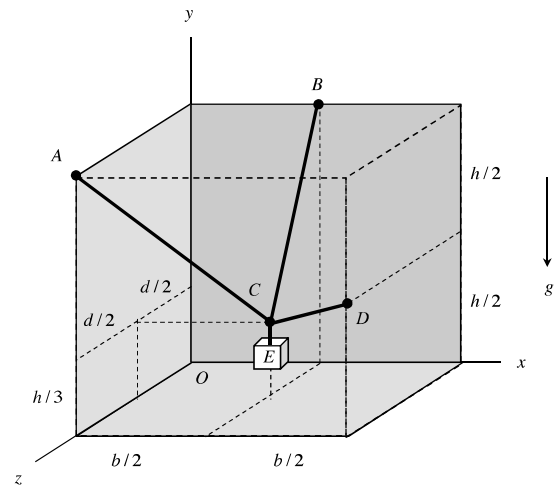## Homework H5.A

Given: Block E has a mass of m_E and is suspended by three cables.

Find: Determine the tension in cables AC, DC and BC.

Use the following parameters in your analysis: m_E = 20 kg, b = 3 m, d = 4 m and h = 4 m.

Homework H5.B

Given: The weight B = 375 lb. is supported by three cables as shown.

Find:

a) Express the tension in cables AB, AC and AD as the product of their unit vectors and unknown tensions.

b) Determine the tension in cables AB, AC and AD.

all dimensions in meters