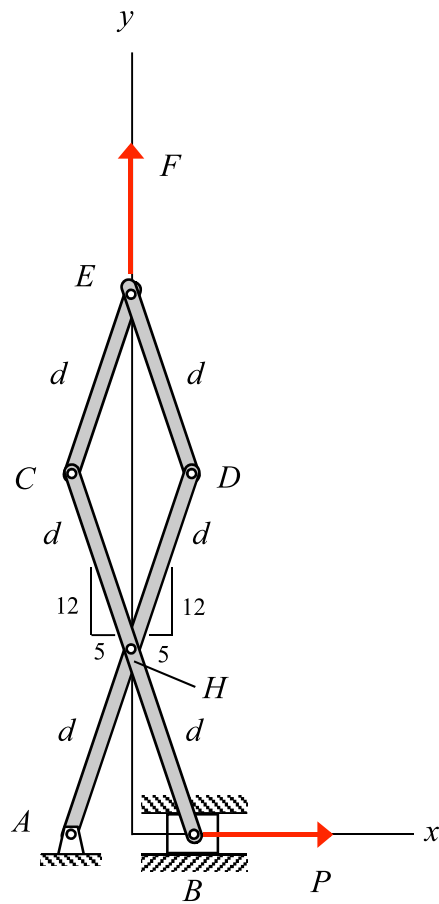


Homework Problem H25.A

Given: A machine is made up of links AD, BC, CE and DE, as shown below. Point A is pinned to ground, with B being constrained to move along a smooth horizontal surface in the direction of x . Loads F and P act at pins E and B, respectively.

Find: Determine the ratio of F/P needed for the machine to be in equilibrium.



Homework Problem H25.B

Given: A machine is made up of links AD, DC and BC. A pair of forces is applied at E on link AB, and a couple M acts on member BC, as shown in the figure.

Find: For the position shown below with DC being horizontal and BC being vertical, determine the value of M required for equilibrium. Express your answer in terms of P and d .

