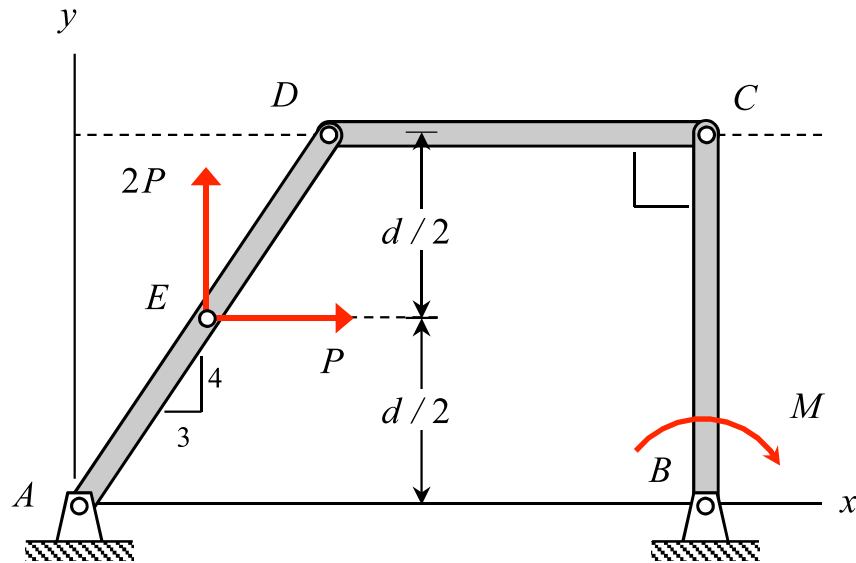


**Homework H25.A**

**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. Write your answer as a vector. Express your answer in terms of  $P$  and  $d$ .



**Homework H25.B**

**Given:** A structure is made up of members BD and AC, as shown below. A force  $P$  is applied at end D of member BD.

**Find:** Determine the reactions acting on the structure at A and B. Write your answers as vectors and in terms of the applied force  $P$ .

