

### Homework Problem H8.B

**Given:** Consider the frame made up of members CD, AC and BE. A moment  $M$  acts on member CD as shown, in addition to loads  $P$  and  $F$  acting on member AC.

**Find:** Determine the load carried by member BE, as well as the reactions on the frame at the support points A and D.

For this problem, use the following parameters:  $b = 0.1$  m,  $h = 0.3$  m,  $F = 600$  kN,  $P = 400$  kN and  $M = 500$  N-m.

