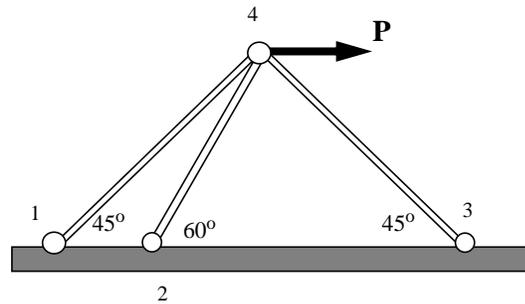
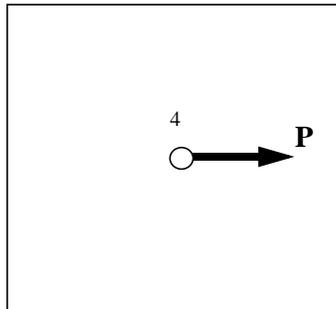


Isolate pin 4, showing the forces acting on the pin due to the tensions (or compressions) in the three members. Complete the free body diagram



Write out the two requirements on the member forces in order for the point to be in static equilibrium of pin 4 here.

$$= 0$$

$$= 0$$

Can you solve for unique values of the member forces in terms of \mathbf{P} (and the given angles)? If yes, do so; if no, explain why not.