

**ME 323: Mechanics of Materials**

**Summer 2024**

**Homework Set H08**

**Assigned/Due: June 19/June 21**

A truss is constructed using three identical members (each of length  $L$ , cross-sectional area  $A$  and made up of a material having a Young's modulus of  $E$ ). A load  $P$  acts on joint  $D$ .

Determine the stresses in each of the three segments of the truss. Leave your answers in terms of, at most,  $P$ ,  $L$ ,  $E$  and  $A$ .

