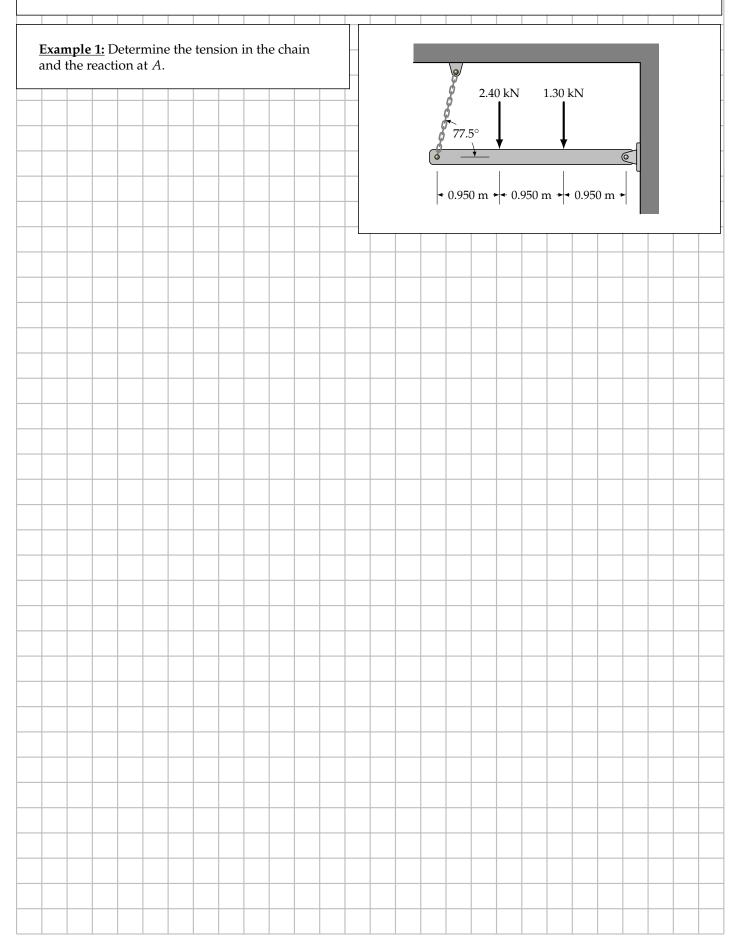
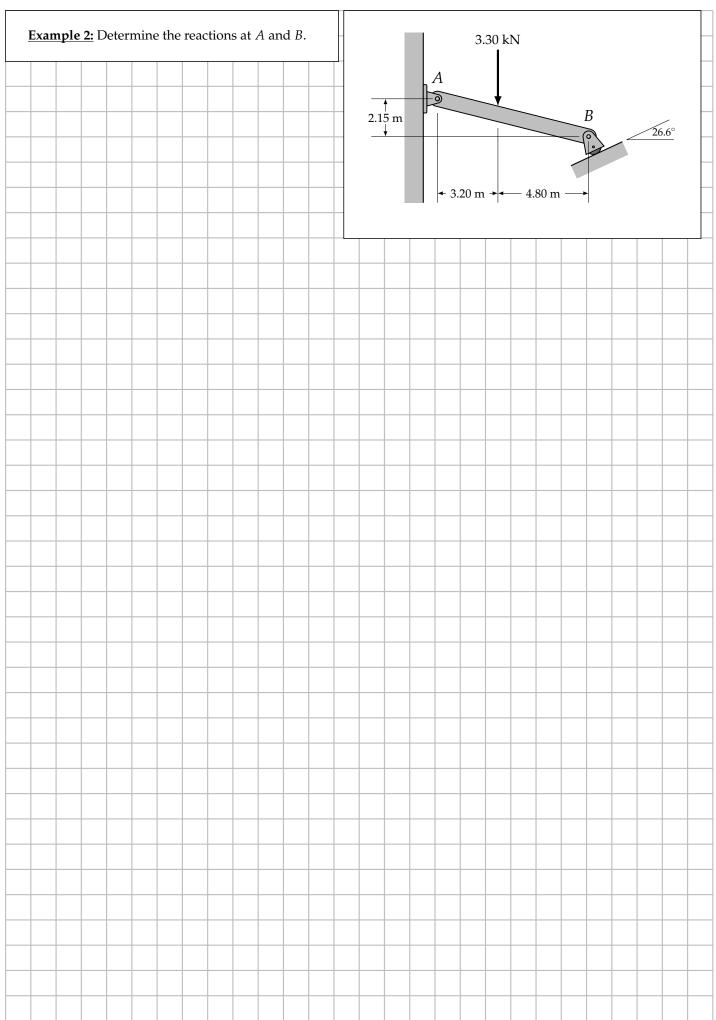
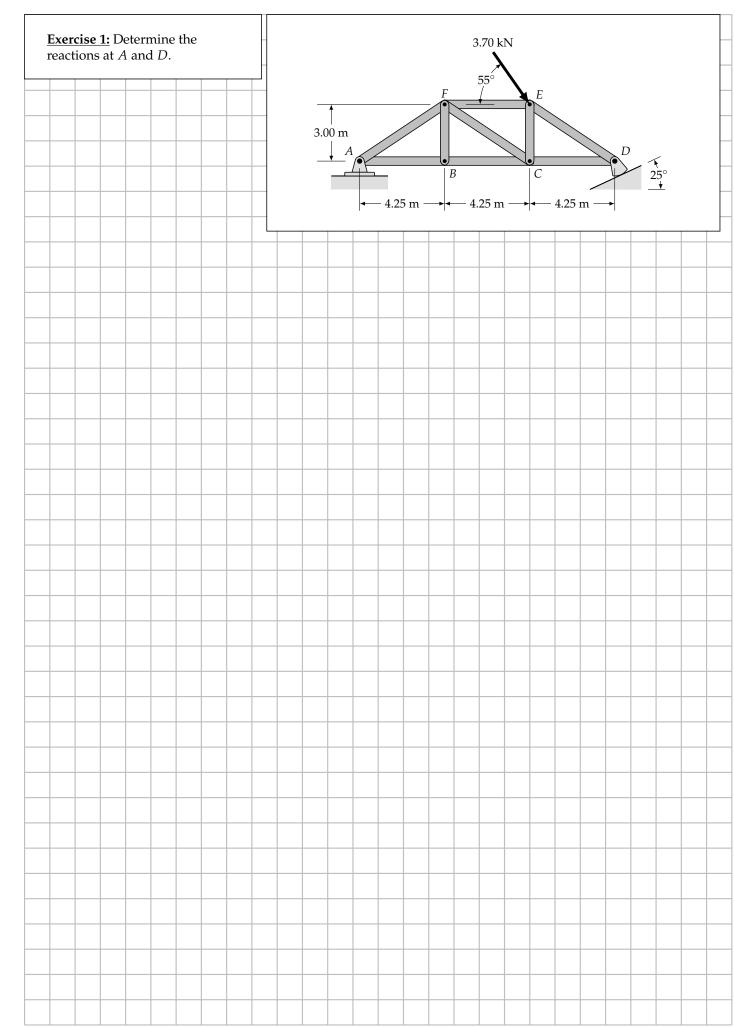
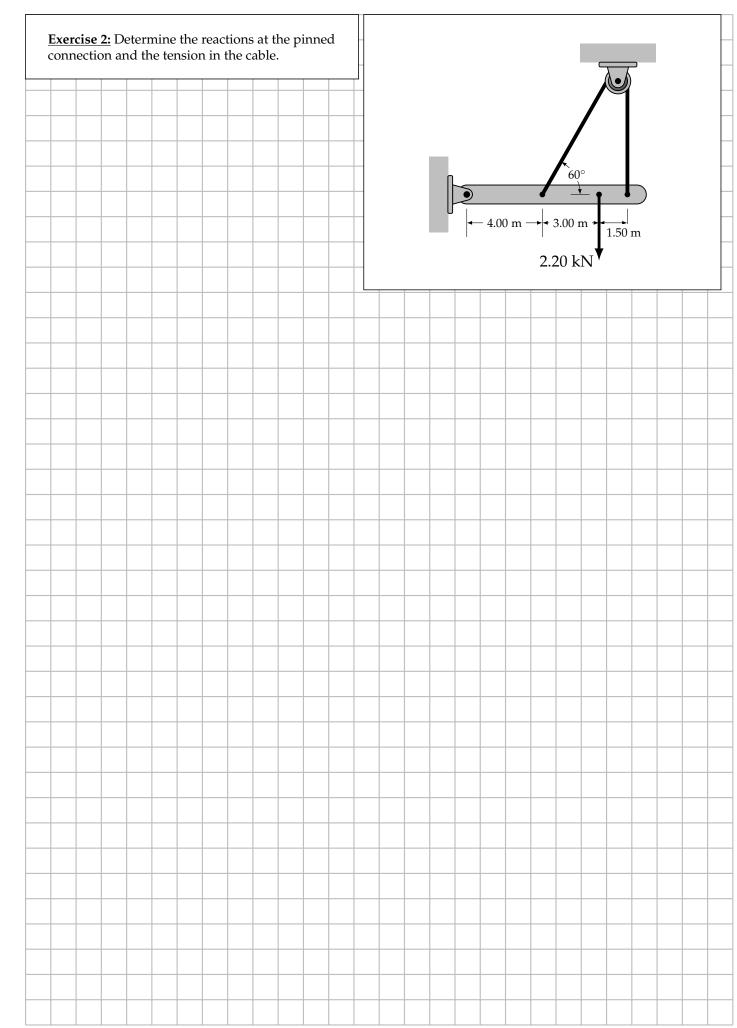
Engineering Statics - 06 Equilibrium of Rigid Bodies

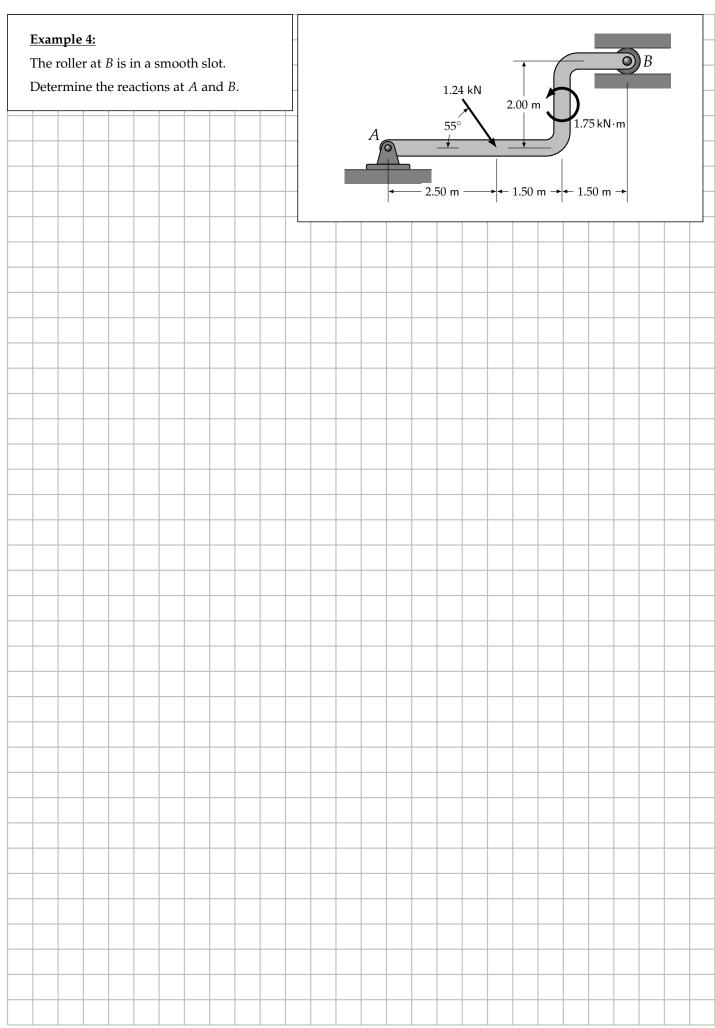








Example 3: The roller and the pinned connection are on slopes inclined at 21° to the horizontal; they are both at the same elevation. **←**2.50 m **→ ←**2.50 m **→ ←**2.50 m **→** 5.00 kN Determine the reactions at the pinned connection and the tension in the cable. $10.0\,\mathrm{kN}$ $8.00\,\mathrm{kN}$



Example 5:

55 - kg bar AB has its centre of gravity at G. It is supported by a pinned connection at A and a smooth peg at C. A cable is attached at B and has a tensile force of $1.70 \, \text{kN}$. The direction of the cable varies between $\theta = 60^\circ$ and $\theta = 135^\circ$.

What is the maximum reaction at *P*? Determine the reaction at *A* for this reaction at *P*.

