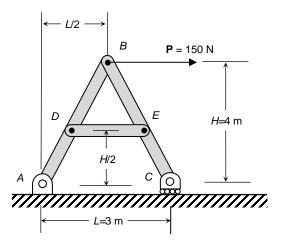
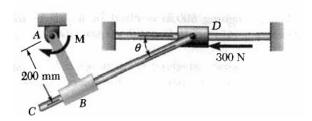
Example

The A-frame in the figure is subjected to a force of P=150 N as shown in the figure. Assuming massless members, find the reactions at A and C and the pin reactions at D and B.



Example

The figure below shows what is known as a slider-crank mechanism, a machine that changes rotational motion into translational motion, or *vice versa*. If the angle θ =30°, find the required moment that must be supplied at A in order to maintain equilibrium.



Example

Tongs are used to lift a barrel weighing 60 lb as shown in the figure. If a=5 in, find the forces exerted on the tongs at both C and D.

