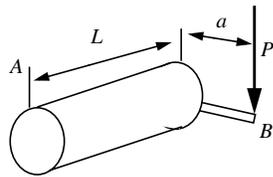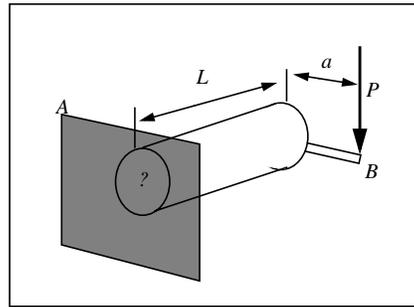A solid cylinder is fixed to the wall at end A and supports an offset load, P, at its free end B.   We seek to determine the reactions at the root, at the wall.

First step, complete the free body diagram.

Second step, write out the consequences of the equilibrium requirements:

Solve for the reactions at the root.