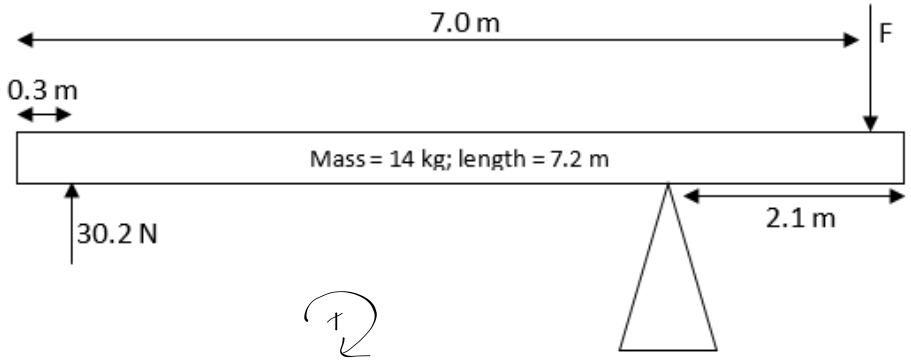
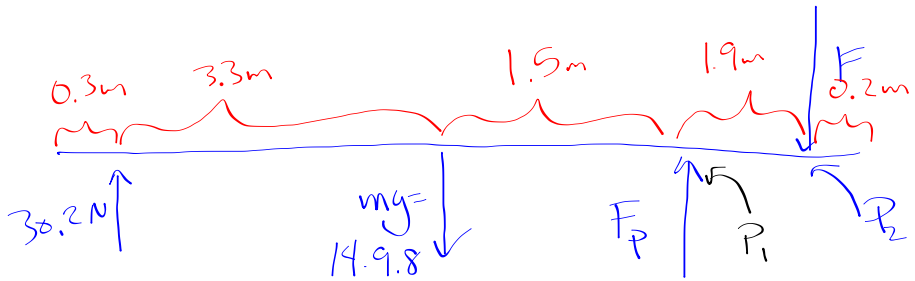
In the diagram below, find *F* and the upward force from the pivot point. Assume all objects are in rotational static equilibrium.




$$\Sigma \tau_{P1} = \emptyset$$

$$(30.2)(4.8) + -(14 \cdot 9.8)(1.5) + (F_p)(\emptyset) + (F)(1.9) = \emptyset$$

$$\Sigma \tau_{P2} = \emptyset$$

$$(30.2)(6.7) + -(14 \cdot 9.8)(3.4) + F_p(1.9) + F(\emptyset) = \emptyset$$