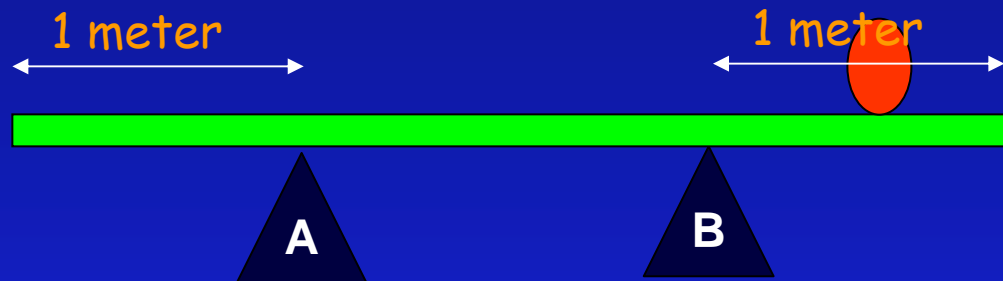


Homework 8 Hints

How far to the right of support B can the painter stand before the plank tips?



Just before board tips, force from A becomes zero

1) Draw FBD

2) $\Sigma F = 0$ $F_B - mg - Mg = 0$

3) Choose pivot

4) $\Sigma \tau = 0$

$$F_B * 0 + mg * 0.5 - Mg * x = 0$$

$$0.5 m = x M$$

