

- 1 Fig. 1.1 shows a 1000 N uniform thin rod being towed by a force T and moving at constant horizontal velocity.

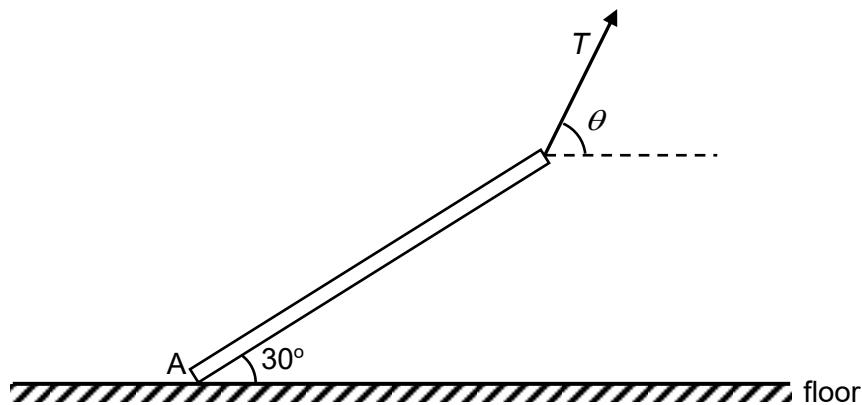


Fig. 1.1

- (a) State the conditions required for a body to be in *equilibrium*.

[2]

- (b) On Fig. 1.1, draw and label the **two** other forces acting on the rod.

[2]

- (c) Given angle θ is 70° , determine force T .

force $T = \dots$ N [3]

[Total: 7]