

34. Fig. 2.1 shows a uniform plank AB of length 2.0 m suspended from two ropes X and Y.

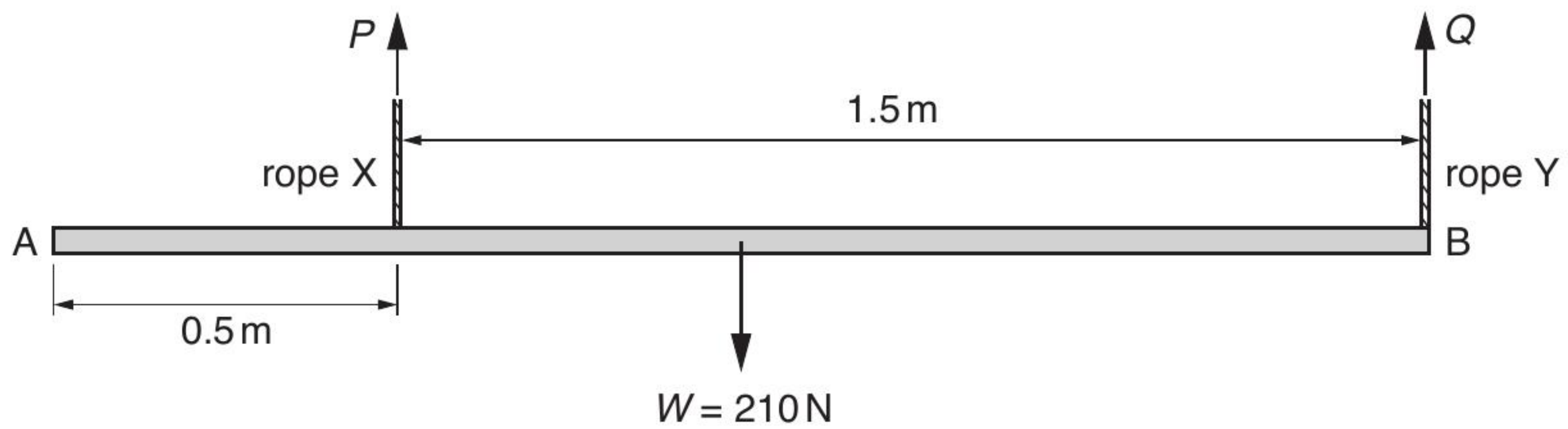


Fig. 2.1

The weight W of the plank is 210 N. The force in rope X is P . The force in rope Y is Q .

- (a) State, in terms of P , the moment of force P about B.

.....[1]

- (b) Calculate:

- (i) the moment of W about B

moment =[1]

- (ii) the force P

force P =[2]

- (iii) the force Q .

force Q =[2]

[Total: 6]