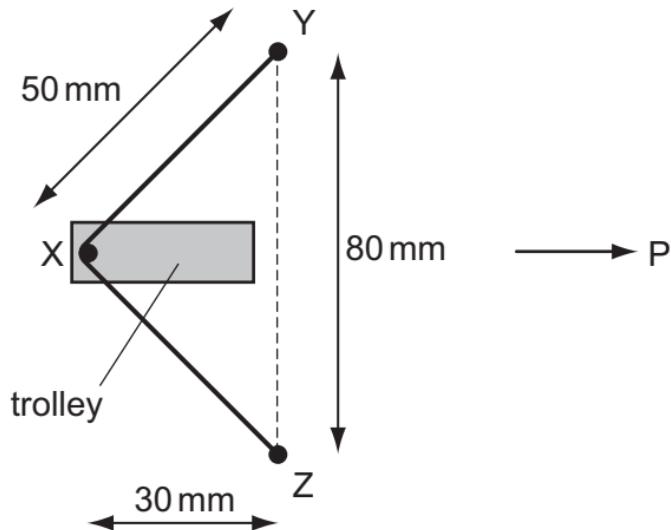


- 17 The diagram shows two fixed pins, Y and Z. A length of elastic is stretched between Y and Z and around pin X, which is attached to a trolley.



X is at the centre of the elastic and the trolley is to be propelled in the direction P at right angles to YZ. The tension in the elastic is 4 N.

What is the force accelerating the trolley in the direction P when the trolley is released?

A 2.4 N

B 3.2 N

C 4.8 N

D 6.4 N

- 18 An electric motor produces 120 W of useful mechanical output power. The efficiency of the motor