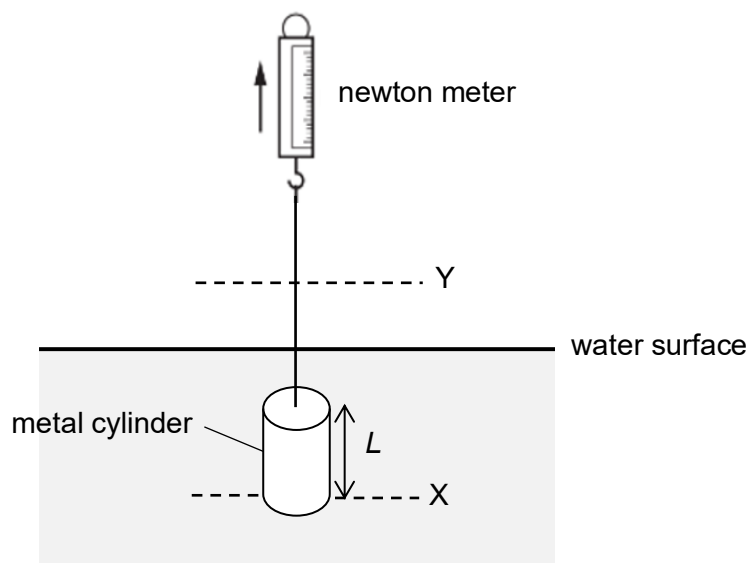


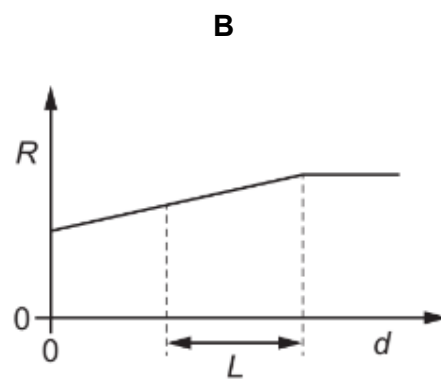
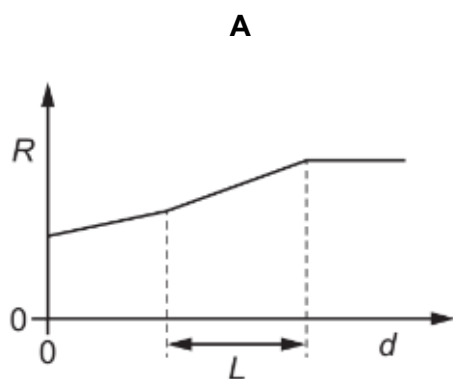
- 6 A metal cylinder, totally immersed in water, is hung from a newton meter.



The cylinder, of height L , is slowly raised vertically by lifting the newton meter. Drag forces are assumed to be negligible.

As the base of the cylinder moves from line X in the water to line Y above the surface of the water, the reading R on the newton meter is recorded. Assume that the velocity of the cylinder is constant.

Which graph best shows the variation of R with the distance d of the base of the cylinder from line X?



C

D

