

**13** A rod is pivoted at one end. Initially the angle  $\theta$  of the rod to the horizontal is  $0^\circ$ .

The weight of the rod causes a moment  $M$  about the pivot.

The rod is then rotated in the vertical plane so that the angle  $\theta$  of the rod increases from  $0^\circ$  to  $180^\circ$ .

Which graph shows the variation of  $M$  with  $\theta$ ?

