**5*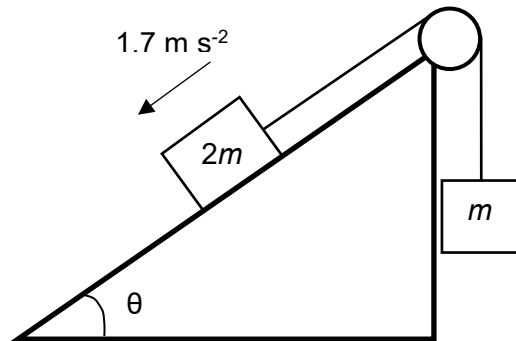* The diagram shows two blocks of mass m and $2m$ connected by a light inextensible cord passing over a light, free-running pulley. At what angle θ must the smooth slope be inclined such that the block with mass $2m$ accelerates down the slope at 1.7 m s^{-2}?

1.7 m s^{-2}

$2m$

m

θ

A 14°   **B** 41°   **C** 49°   **D** 76°