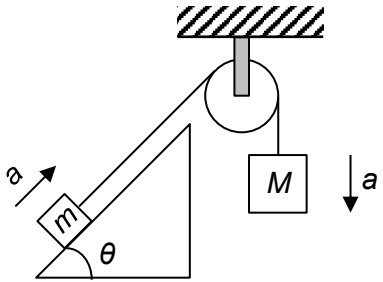
4 Two blocks of masses M and m are joined by a light inextensible string through a frictionless pulley as shown. Mass m lies on a smooth slope of angle θ.



The acceleration of free fall is g.

What is the acceleration a of the two blocks?

A $\dfrac{(M + m\cos\theta)}{(M + m)}g$

B $\dfrac{(M + m\sin\theta)}{(M + m)}g$

C $\dfrac{(M - m\cos\theta)}{(M + m)}g$

D $\dfrac{(M - m\sin\theta)}{(M + m)}g$