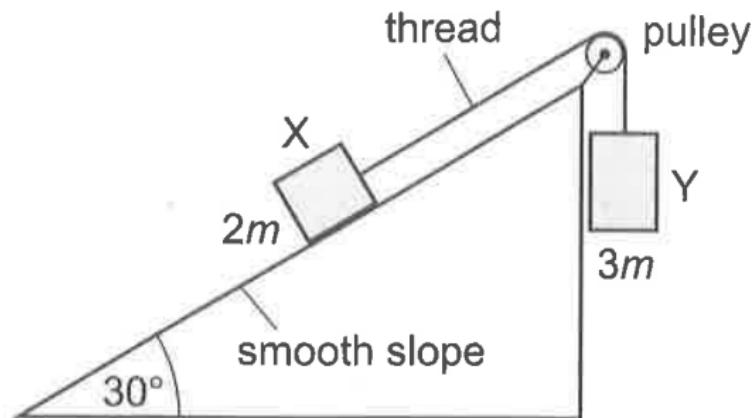


- 9 Two objects, X and Y, are joined by a thread which passes over a frictionless pulley. Object X has mass $2m$ and object Y has mass $3m$.

X rests on a smooth slope with gradient 30° and Y hangs freely as shown. The acceleration of free fall is g .



What is the acceleration of Y?

A $0.20g$

B $0.25g$

C $0.40g$

D $0.67g$

- 10 Objects X and Y are of equal mass and travelling directly towards each other on a flat horizontal surface.