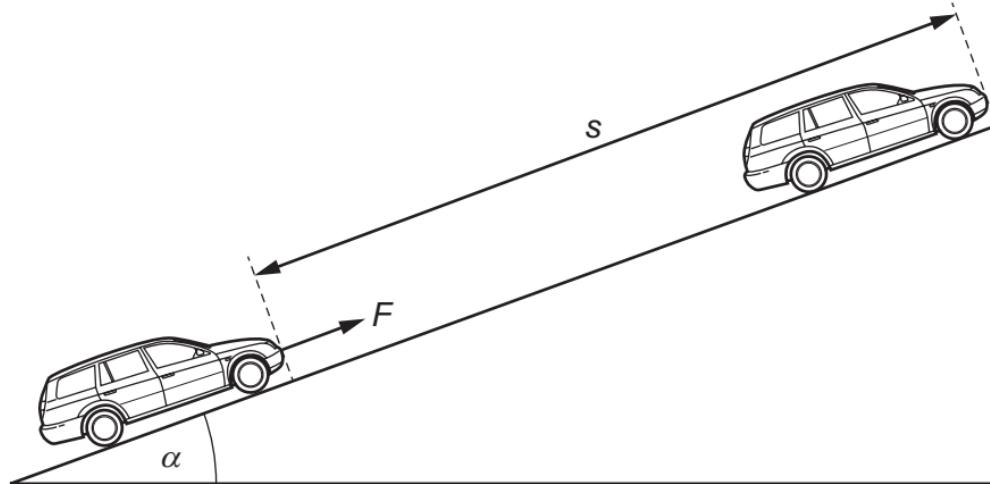


- 17 A constant force F , acting on a car of mass m , moves the car up a slope through a distance s at constant velocity v . The angle of the slope to the horizontal is α .



The acceleration of free fall is g .

What is the ratio $\frac{\text{gravitational potential energy gained by car}}{\text{work done by force } F}$?

A $\frac{mgs \sin \alpha}{Fv}$

B $\frac{mv}{Fs}$

C $\frac{mv^2}{2Fs}$

D $\frac{mg \sin \alpha}{F}$