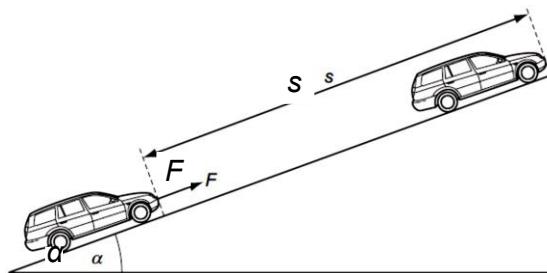


**5**

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



Which expression gives the efficiency of the process?

**A**

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

**B**

$$\frac{mv}{Fs}$$

**C**

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

**D**

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