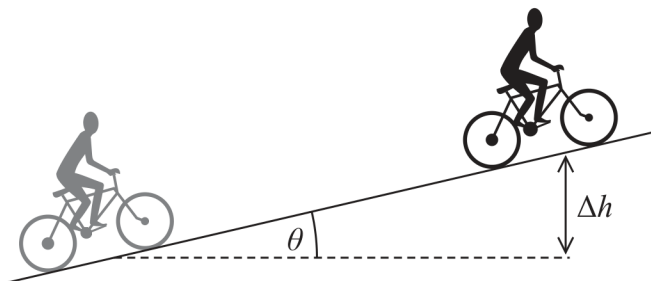


- 9 A cyclist rode along a slope at a constant speed. The increase in vertical height of the cyclist was Δh . The slope was at an angle θ to the horizontal as shown.



The forward force of the road on the bicycle was F and air resistance was negligible.

Which of the following gives the work done by the cyclist?

- ☐ A $F \Delta h \cos \theta$
- ☐ B $\frac{F \Delta h}{\cos \theta}$
- ☐ C $F \Delta h \sin \theta$
- ☐ D $\frac{F \Delta h}{\sin \theta}$

(Total for Question 9 = 1 mark)