

17 A cyclist is capable of generating an average power of 3.0 kW during a 4.0 km speed trial. His aerodynamic suit and position on the cycle reduce resistive forces to 180 N.

What is the approximate time achieved in the speed trial?

A 140 s

B 240 s

C 1300 s

D 2200 s

18 A constant force of 0.0 kN parallel to an inclined plane moves a body of weight 20 kN through a