

Question 15954

For a movement with constant acceleration, $v(t) = v_0 + at$, where v_0 is the initial velocity.

Hence, for our case, $v = at \Rightarrow t = \frac{v}{a} = \frac{5 \text{ m/s}}{1.75 \text{ m/s}^2} \approx 2.86 \text{ s}$.