Question \#73201, Physics / Other

A car travels with an initial velocity of $12 \mathrm{~m} / \mathrm{s}$ and acceleration of $2.5 \mathrm{~m} / \mathrm{s}^{\wedge} 2$ for a time of 2 seconds?

## Solution

The distance traveled during the uniformly accelerated motion is calculated as follows.
$d=V_{0} t+\frac{a t^{2}}{2} ;$
$d=12 \times 2+\frac{2.5 \times 2^{2}}{2}=29 \mathrm{~m}$

Answer: the car travels 29 m.

Answer provided by https://www.AssignmentExpert.com

