Question #73201, Physics / Other

A car travels with an initial velocity of 12 m/s and acceleration of 2.5 m/s^2 for a time of 2 seconds?

## Solution

The distance traveled during the uniformly accelerated motion is calculated as follows.

$$d = v_0 t + \frac{at^2}{2}$$
;

$$d = 12 \times 2 + \frac{2.5 \times 2^2}{2} = 29 \text{ m}$$

Answer: the car travels 29 m.

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