

**a Pontiac trans-am, initially at rest accelerates at a constant rate of 4.0 m/s squared for six seconds how fast will the car be traveling a T equals six seconds**

**Answer 1**

Answer: use formula:  $a = \frac{V_f - V_i}{t}$

rearrange:  $V_f = at$

solve:  $V_f = 4.0 \text{ m/s}^2 \times 6 \text{ s}$

$V_f = 24 \text{ m/s} \rightarrow \text{sigdigs}$

$V_f = 2.4 \times 10^1 \text{ m/s}$

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