Question #62077, Physics / Other

The head of a rattlesnake can accelerate 50.0 m/s in striking a victim. If a car could do this as well, how long would it take for it to reach a speed of 24.6 m/s from rest?

The answer to the question.

The equation of uniformly accelerated motion speed:

$v = at;$

$t = \frac{v}{a};$

$t = \frac{24.6\ m/s}{50\ m/s^2} = 0.492\ s;$

Answer: $t = 0.492\ s$