Question #23269

a truck travelled at 25 meters per second puts its break on for 4 seconds. this produces acceleration of 2 meters per second square.what does the truck's velocity drop to?

Solution:

The equation of velocity on equally accelerated motion is:

$v = v_0 + at$

$v_0 = 25 \ m/s$

$a = -2 \ m/s^2$

$t = 4 \ s$

$v = 25 - 2 * 4 = 17 \ m/s$

Answer: 17 m/s.