

Answer on Question #46896, Physics, Mechanics | Kinematics | Dynamics

**Problem.**

$D=5t$  to the 2nd. Find the distance  $d$  in meters that an object falls in a time  $t$  of 5 seconds.

**Solution:**

If  $D(t) = 5t^2$ , then the distance in a time  $t = 5$  seconds equals

$$D(5) = 5 \cdot 5^2 = 125 \text{ m.}$$

**Answer:**  $D(5) = 125 \text{ m.}$