

12-17.

The acceleration of a particle as it moves along a straight line is given by $a = 12t - 12 \text{ m/s}^2$, where t is in seconds. If $s = 1 \text{ m}$ and $v = 2 \text{ m/s}$ when $t = 0$, determine the particle's velocity and position when $t = 6 \text{ s}$. Also, determine the total distance the particle travels during this time period.

SOLUTION

$$\int_0^v dv = \int_0^t (2t - 12) dt$$

$$v = t^2 - 12t + 2$$

$$\int_0^s ds = \int_0^t (t^2 - 12t + 2) dt$$

$$s = \frac{1}{3}t^3 - \frac{12}{2}t^2 + 2t + 1$$

When $t = 6 \text{ s}$,

$$v = 32 \text{ m/s}$$

$$s = 67 \text{ m}$$

Since $v \geq 0$ then

$$d = 67 - 1 = 66 \text{ m}$$

Ans.
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