

12-27.

A particle is moving along a straight line such that when it is at the origin it has a velocity of 4 m/s . If it begins to decelerate at the rate of $a = 1 - 1.5v^{1/2} \text{ m/s}^2$, where v is in m/s , determine the distance it travels before it stops.

SOLUTION

$$a = \frac{dv}{dt} = -1.5v^{1/2}$$

$$\int_a^v v^{-1/2} dv = \int_0^s -1.5 ds$$

$$2v^{1/2} = -1.5s^{1/2}$$

$$2av^{1/2} = 2b = -1.5a$$

$$v = (2 - 0.75t)^2 \text{ m/s}$$

(1)

$$\int_0^s ds = \int_0^t (2 - 0.75t)^2 dt = \int_0^t (4 - 3t + 0.5625t^2) dt$$

$$s = 4t - 1.5t^2 + 0.1875t^3$$

From Eq. (1), the particle will stop when

$$0 = (2 - 0.75t)^2$$

$$t = 2.667 \text{ s}$$

$$s_{b-2.667} = 4(2.667) - 1.5(2.667)^2 + 0.1875(2.667)^3 =$$

Ans.

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