

*12-16. A particle is moving along a straight line with an initial velocity of 6 m/s when it is subjected to a deceleration of $a = (-1.5v^{1/2})$ m/s², where v is in m/s. Determine how far it travels before it stops. How much time does this take?

$$S = \frac{1}{-1.5} \int_6^0 \frac{v}{v^{1/2}} dv$$

$$= \frac{1}{-1.5} \int_6^0 v^{1/2} dv$$

$$S = \frac{2}{-4.5} [v^{3/2}]_6^0$$

$$= \frac{2}{-4.5} [0 - 6^{3/2}]$$

$$\boxed{S = 6.53 \text{ m}} \quad \text{Ans.}$$

$$a = \frac{dv}{dt}$$

$$dt = \frac{dv}{a}$$

$$\int_0^t dt = \int_6^0 \frac{1}{-1.5v^{1/2}} dv$$

$$t = \frac{1}{-1.5} \int_6^0 v^{-1/2} dv$$

$$= \frac{2}{-1.5} v^{1/2} \Big|_6^0$$

$$t = \frac{0 - 2 \cdot 6^{1/2}}{-1.5}$$

$$\boxed{t = 5.31 \text{ s}}$$

HOW TO SOLVE 12-16

$$v = 0$$

Engineering Mechanics

DYNAMICS

Fourteenth Edition



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