

*12–20.

The velocity of a particle traveling along a straight line is $v = (3t^2 - 6t)$ ft/s, where t is in seconds. If $s = 4$ ft when $t = 0$, determine the position of the particle when $t = 4$ s. What is the total distance traveled during the time interval $t = 0$ to $t = 4$ s? Also, what is the acceleration when $t = 2$ s?

SOLUTION

Position: The position of the particle can be determined by integrating the kinematic equation $ds = v dt$ using the initial condition $s = 4$ ft when $t = 0$ s. Thus,

$$\int_4^s ds = \int_0^t (3t^2 - 6t) dt$$

$$s - 4 = (t^3 - 3t^2)$$

$$s = t^3 - 3t^2 + 4 \text{ ft}$$

When $t = 4$ s,

$$s_{4s} = 4^3 - 3(4^2) + 4 = 20 \text{ ft}$$

The velocity of the particle changes direction at the instant when it is brought to rest. Thus,

$$v = 3t^2 - 6t = 0$$

$$t(3t - 6) = 0$$

$$t = 0 \text{ and } t = 2 \text{ s}$$

The position of the particle at $t = 0$ and 2 s

$$s_{0s} = 0 - 3(0^2) + 4 = 4$$

$$s_{2s} = 2^3 - 3(2^2) + 4 = 0$$

Using the above result, the path of the particle shown in Fig. a is plotted. From this figure,

$$s_{tot} = 4 + 20 = 24 \text{ ft}$$

Ans.

Acceleration:

$$a = \frac{dv}{dt} = \frac{d}{dt} (3t^2 - 6t)$$

$$a = 16t - 6 \text{ ft/s}^2$$

When $t = 2$ s,

$$a_{t=2s} = 6(2) - 6 = 6 \text{ ft/s}^2$$

Ans.



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