

12-16.

The position of a particle along a straight line is given by $s = (1.5t^3 - 13.5t^2 + 22.5t)$ ft, where t is in seconds. Determine the position of the particle when $t = 6$ s and the total distance it travels during the 6-s time interval. *Hint:* Plot the path to determine the total distance traveled.

SOLUTION

Position: The position of the particle when $t = 6$ s is

$$s_{6-6s} = 1.5(6^3) - 13.5(6^2) + 22.5(6) = -27.0 \text{ ft} \quad \text{Ans.}$$

Total Distance Traveled: The velocity of the particle can be determined by applying Eq. 12-1,

$$v = \frac{ds}{dt} = 4.50t^2 - 27.0t + 22.5$$

The times when the particle stops are

$$4.50t^2 - 27.0t + 22.5 = 0$$

$$t = 1 \text{ s} \quad \text{and} \quad t = 5 \text{ s}$$

The position of the particle at $t = 0$ s, 1 s and 5 s are

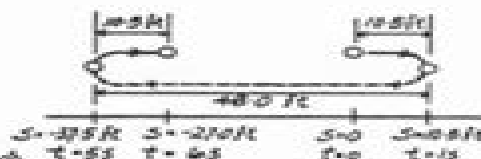
$$s_{0-0s} = 1.5(0^3) - 13.5(0^2) + 22.5(0) = 0$$

$$s_{1-1s} = 1.5(1^3) - 13.5(1^2) + 22.5(1) = 10.5 \text{ ft}$$

$$s_{5-5s} = 1.5(5^3) - 13.5(5^2) + 22.5(5) = -27.5 \text{ ft}$$

From the particle's path, the total distance is

$$s_{\text{tot}} = 10.5 + 48.0 + 10.5 = 69.0 \text{ ft} \quad \text{Ans.}$$



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