

12–46.

The a - s graph for a rocket moving along a straight track has been experimentally determined. If the rocket starts at $s = 0$ when $v = 0$, determine its speed when it is at $s = 75$ ft, and 125 ft, respectively. Use Simpson's rule with $n = 100$ to evaluate v at $s = 125$ ft.

SOLUTION

$$0 \leq s < 100$$

$$\int_0^s v \, dv = \int_0^s 5 \, ds$$

$$\frac{1}{2} v^2 = 5s$$

$$v = \sqrt{10s}$$

$$\text{At } s = 75 \text{ ft,} \quad v = \sqrt{750} = 27.4 \text{ ft/s}$$

$$\text{At } s = 100 \text{ ft,} \quad v = 31.623$$

$$v \, dv = a \, ds$$

$$\int_{31.623}^v v \, dv = \int_{100}^{125} [5 + 6(\sqrt{s} - 10)^{3/2}] \, ds$$

$$\frac{1}{2} v^2 \Big|_{31.623}^v = 201.0324$$

$$v = 37.4 \text{ ft/s}$$



Ans.

Ans.

Ans:

$$v \Big|_{s=75 \text{ ft}} = 27.4 \text{ ft/s}$$

$$v \Big|_{s=125 \text{ ft}} = 37.4 \text{ ft/s}$$

Solution Manual Ch 15

Thomas Engel, Philip J. Reid



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