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 w=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

 $e = 37.4 \, \Omega/a$

$$0 \le s < 100$$

$$\int_{0}^{r} v \, dv = \int_{0}^{r} 5 \, ds$$

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

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

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

$$At s = 100 ft, \quad v = 31.623$$

$$v \, dv = ads$$

$$\int_{10.623}^{r} v \, dv = \int_{100}^{125} [5 + 6(\sqrt{s} - 10)^{5/3}] \, ds$$

$$\frac{1}{2} v^{2} \Big[_{10.623}^{r} = 201.0324$$

Ans:

$$v\Big|_{v=15.0} = 27.4 \text{ ft/s}$$

 $v\Big|_{v=127.0} = 37.4 \text{ ft/s}$

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Stuart A. Klugman, Harry H. Panjer, Gordon E. Willmot

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