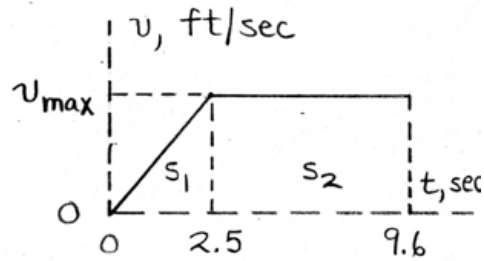


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$$s_1 = \frac{1}{2} (2.5) v_{\max}$$

$$s_2 = (9.6 - 2.5) v_{\max}$$



$$s_1 + s_2 = (1.25 + 7.1) v_{\max} = 100(3)$$

$$\underline{v_{\max} = 35.9 \text{ ft/sec}}$$