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**12–43.** A two-stage missile is fired vertically from rest with the acceleration shown. In 15 s the first stage *A* burns out and the second stage *B* ignites. Plot the  $v-t$  and  $x-t$  graphs which describe the two-stage motion of the missile for  $0 \leq t \leq 20$  s.



Since  $v = \int a \, dt$ , the constant lines of the  $a-t$  graph become sloping lines for the  $v-t$  graph. The numerical values for each point are calculated from the total area under the  $a-t$  graph to the point.

$$\text{At } t = 15 \text{ s,} \quad v = (18)(15) = 270 \text{ m/s}$$

$$\text{At } t = 20 \text{ s,} \quad v = 270 + (25)(20 - 15) = 395 \text{ m/s}$$

Since  $x = \int v \, dt$ , the sloping lines of the  $v-t$  graph become parabolic curves for the  $x-t$  graph.

The numerical values for each point are calculated from the total area under the  $v-t$  graph to the point.

$$\text{At } t = 15 \text{ s,} \quad x = \frac{1}{2}(15)(270) = 2025 \text{ m}$$

$$\text{At } t = 20 \text{ s,} \quad x = 2025 + 270(20 - 15) + \frac{1}{2}(395 - 270)(20 - 15) = 3687.5 \text{ m} = 3.69 \text{ km}$$

Also:

$$0 \leq t \leq 15:$$

$$a = 18$$

$$v = v_0 + a_0 t = 0 + 18t$$

$$x = s_0 + v_0 t + \frac{1}{2} a_0 t^2 = 0 + 0 + 9t^2$$

$$\text{At } t = 15:$$

$$v = 18(15) = 270$$

$$x = 9(15)^2 = 2025$$

$$15 \leq t \leq 20:$$

$$a = 25$$

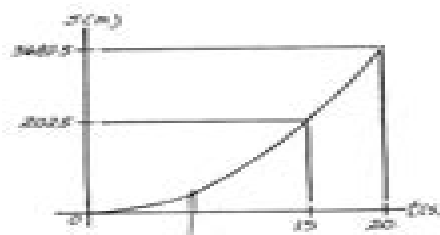
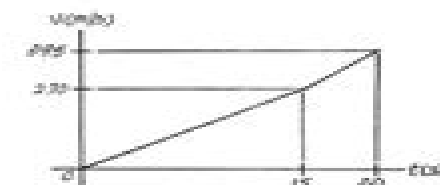
$$v = v_0 + a_0 t = 270 + 25(t - 15)$$

$$x = s_0 + v_0 t + \frac{1}{2} a_0 t^2 = 2025 + 270(t - 15) + \frac{1}{2}(25)(t - 15)^2$$

When  $t = 20$ :

$$v = 395 \text{ m/s}$$

$$x = 3687.5 \text{ m} = 3.69 \text{ km}$$



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**R Pring**



**R C Hibbeler Dynamics 12th Edition Solutions Pdf:**

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