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82-85. An airplane traveling at 70 m/s lands on a straight runway and has a deceleration described by the graph. Determine the time t' and the distance traveled for it to reach a speed of 5 m/s. Construct the $v-t$ and $s-t$ graphs for this time interval, $0 \leq t \leq t'$.



$v-t$ Graph: For the time interval $0 \leq t < 5$ s, the initial condition is $v = 70$ m/s when $t = 0$ s.

$$\begin{aligned} \left(\frac{dv}{dt} \right) &= a \\ \int_{70 \text{ m/s}}^v dv &= \int_0^t -10 dt \\ v &= (-10t + 70) \text{ m/s} \end{aligned}$$

When $t = 5$ s,

$$v_{5 \text{ s} \rightarrow 5 \text{ s}} = -10(5) + 70 = 20 \text{ m/s}$$

For the time interval $5 \text{ s} < t \leq t'$, the initial condition is $v = 20$ m/s when $t = 5$ s.

$$\begin{aligned} \left(\frac{dv}{dt} \right) &= a \\ \int_{20 \text{ m/s}}^v dv &= \int_5^t -4 dt \\ v &= (-4t + 40) \text{ m/s} \end{aligned}$$

When $v = 5$ m/s,

$$5 = -4t' + 40$$

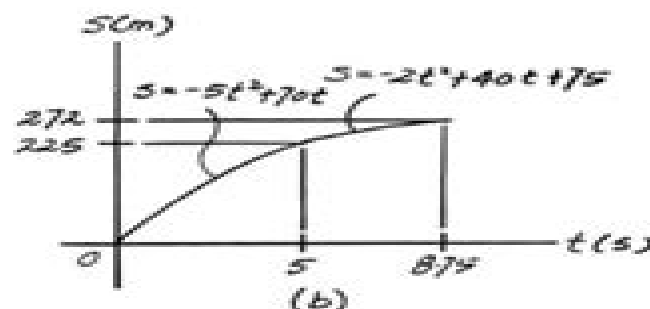
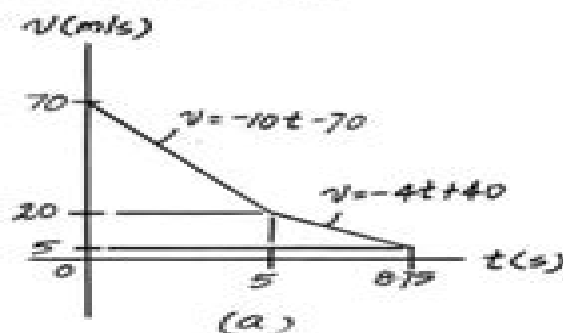
$$t' = 8.75 \text{ s}$$

Ans.

Also, the change in velocity is equal to the area under the $a-t$ graph. Thus,

$$\begin{aligned} \Delta v &= \int a dt \\ 5 - 70 &= -[5(10) + 4(t' - 5)] \\ t' &= 8.75 \text{ s} \end{aligned}$$

The $v-t$ graph is shown in Fig. a.



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