

CHAPTER 1

Problem 1-1

(a) Write the acceleration as

$$a(t) = \begin{cases} \alpha t, & t \leq t_0 \\ 0, & t > t_0 \end{cases}$$

Thus the velocity and position are, respectively, given by

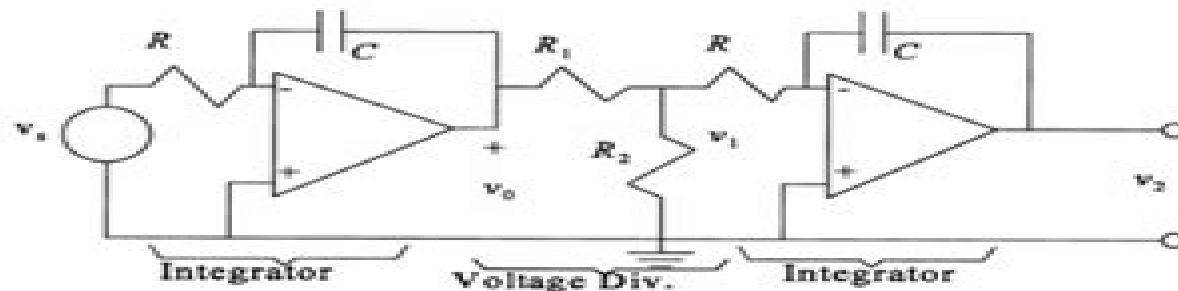
$$v(t) = \int_0^t a(\lambda) d\lambda = \begin{cases} \alpha t^2/2, & t \leq t_0 \\ \alpha t_0^2/2, & t > t_0 \end{cases}$$

and

$$x(t) = \int_0^t v(\lambda) d\lambda = \begin{cases} \alpha t^3/6, & t \leq t_0 \\ \alpha t_0^3/6 + \alpha t_0^2(t - t_0)/2, & t > t_0 \end{cases}$$

For $t_0 = 72$ s and $\alpha = 5/9$ m/s², we have $x(t) = (5/54)t^3$, $t \leq 72$ s. At $t = t_0 = 72$ s (burnout), we have $x(t_0) = 35.56$ km.

(b) See the figure below for the integrator.



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