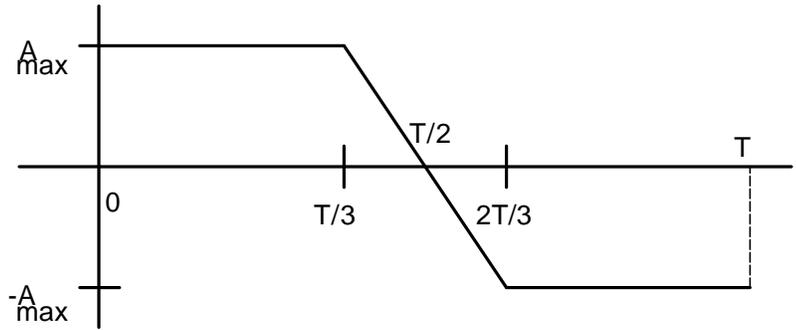


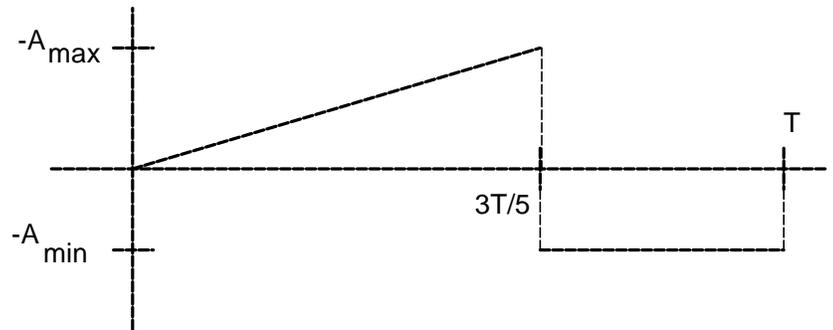
Due: Wednesday, 10/24/01

- Find the velocity and displacement profiles for the given acceleration profile.
 - Identify the order of all parts of the velocity and displacement profiles and values for all transition points
 - Leave your answer in terms of A_{max} and T .



- Use Excel to solve problem #1 numerically for $A_{max} = 20 \text{ rad/sec}^2$ and $T=0.6$ seconds.

- Find the velocity and displacement profiles for the given acceleration profile below.
 - Note that $A_{min} \neq A_{max}$, but that the final velocity must be zero.
 - Identify the order of all parts of the velocity and displacement profiles and values for all transition points
 - Leave your answer in terms of A_{max} and T .



- Determine the coefficients for all three polynomials of the “4-3-4” profile for the problem below.
 - Use Excel or Matlab to plot the displacement, velocity, and acceleration profiles
 - Clearly identify the maximum and minimum velocity and acceleration on the plots

