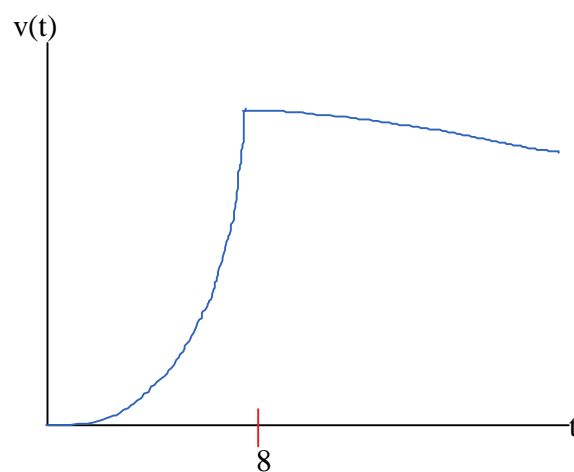
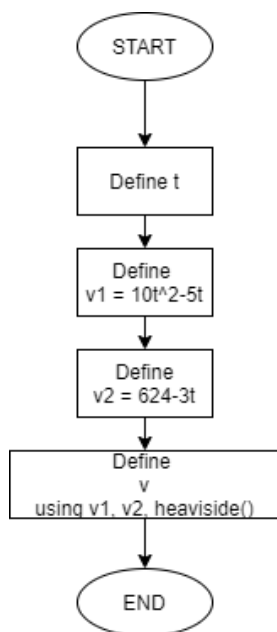


Projectile Velocity

The velocity of a projectile is given by:

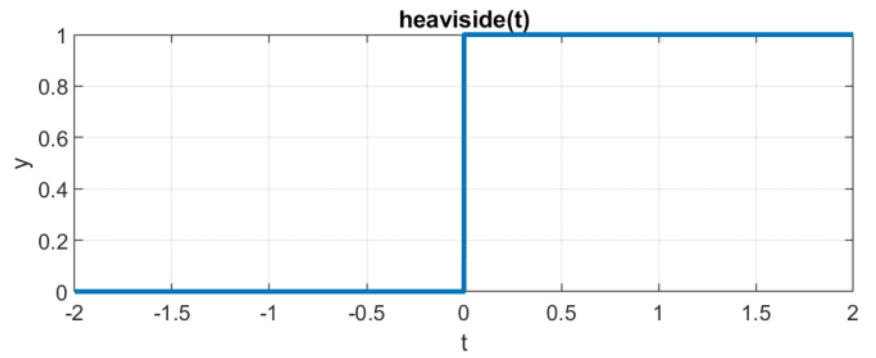
$$v(t) = \begin{cases} 10t^2 - 5t & 0 \leq t < 8 \\ 624 - 3t & 8 \leq t \leq 16 \end{cases}$$

Given $t = 0:0.5:16$, develop a *script m-file* to compute v using MATLAB's `heaviside()` function.



Heaviside step function:

$$H(t) = \begin{cases} 0 & t < 0 \\ 1 & t \geq 0 \end{cases}$$



Shifted Heaviside step function:

$$H(t - a) = \begin{cases} 0 & t < a \\ 1 & t \geq a \end{cases}$$

