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Now we can rewrite our continuous time system eqn. 1 in discrete time as:  $x((k+1)T) = G(T)x(kT) + H(T)u(kT)$  (6) and  $y(kT) = Cx(kT) + Du(kT)$  : (7) It is worthwhile to convince yourself that this is the exact solution for  $x(t)$  when  $t = kT$ .  
Discrete Time Solution

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