

### **Task – Pamela E. Harris**

A physical flag is often raised to draw our attention to a problem or situation. For example, every September 11 in remembrance of the September 11 attacks, the flag is raised to half-staff (half-way up the pole). In this instance, the flag is raised to the top of the pole as you normally would (quickly!), then we let the flag stay at the top for a few seconds, then the flag is lowered to the middle of the pole (slowly) and then the halyard is then tied off.

Given this scenario, draw a graph of the function  $f(x)$ , where  $x$  denotes time and  $f(x)$  represents the height of the flag, as it is being raised to half-staff.