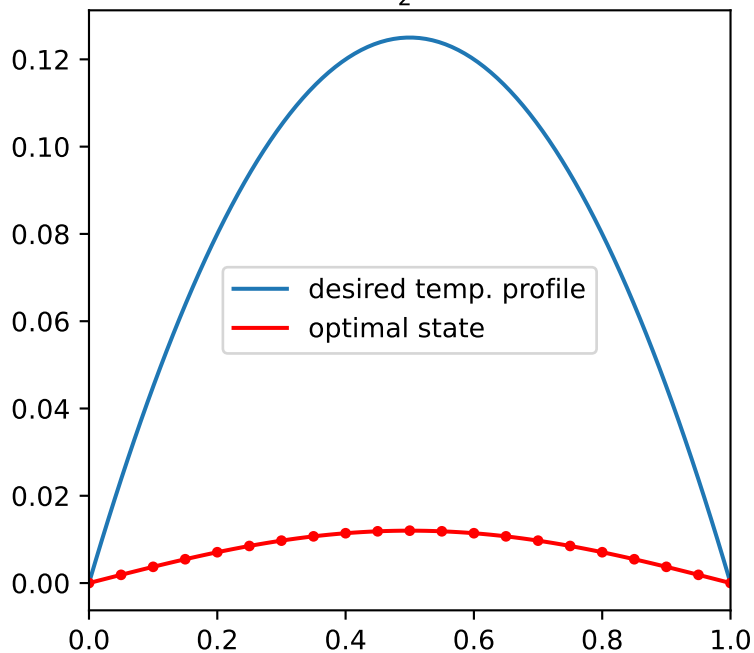
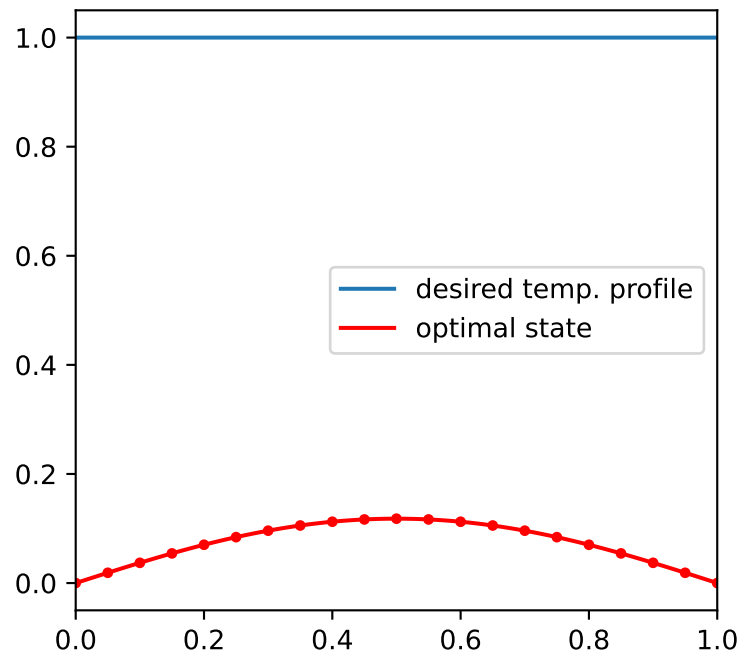


OCP: partitioning of  $[0, 1]$  into 20 segments, cost parameter:  $\alpha = 1\text{e-}01$ . deg = 2.

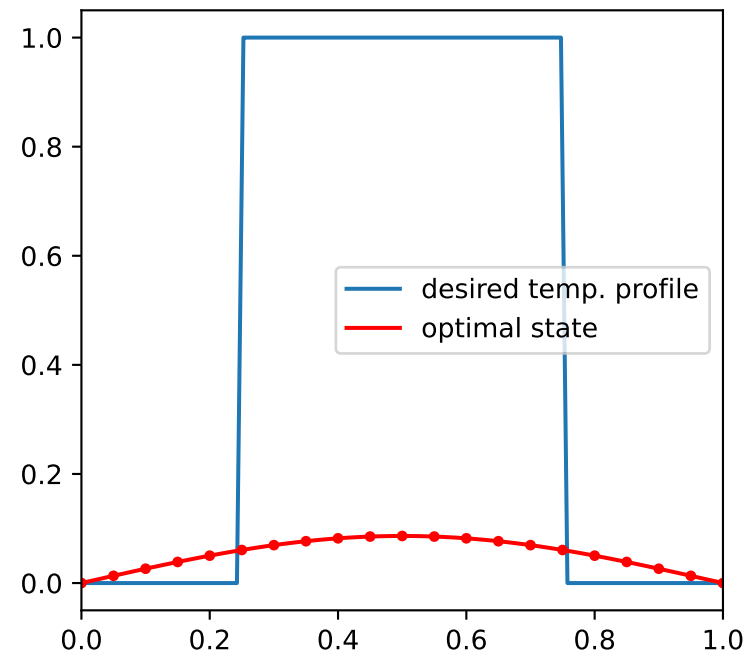
$$y_d(x) = \frac{1}{2}x(1-x)$$



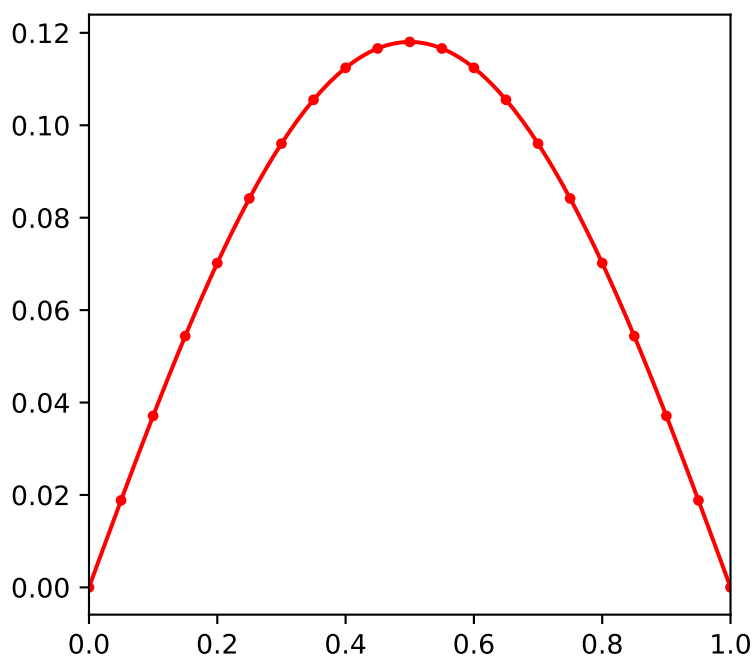
$$y_d(x) = 1$$



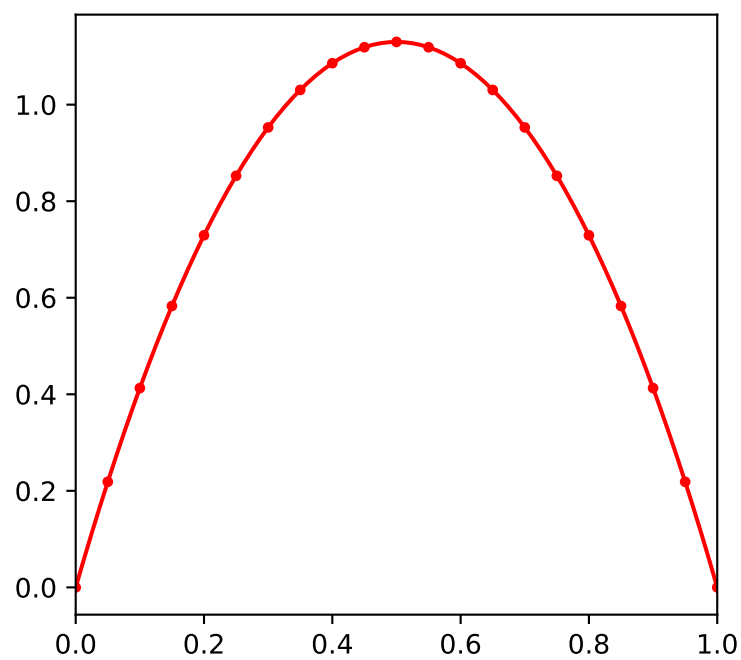
$$y_d(x) = 1, \{1/4 < x < 3/4\}$$



Distributed heat source  $u$



Distributed heat source  $u$



Distributed heat source  $u$

