Remarks: See § 8.1, pages 543 till 557

Answers:

a) $M(x) = \frac{Tx}{L}$

b) $w(x) = -\frac{1}{EI}\left(\frac{Tx^3}{6l} - \frac{Tlx}{6}\right)$

c) $w\left(l/2\right) = \frac{Tl^2}{16EI}$

$\varphi(0) = -\frac{dw}{dx}(0) = -\frac{Tl}{6EI}$

$\varphi(l) = \frac{Tl}{3EI}$