

## 1c) Code Verification

Grid function error norm:

$$\| \underline{E} \|_2 = \left( h \sum_{j=1}^m |E_j|^2 \right)^{1/2}$$

where  $\underline{E} = \underline{U} - \hat{\underline{U}}$

i.e.  $E_j = U_j - u(x_j)$