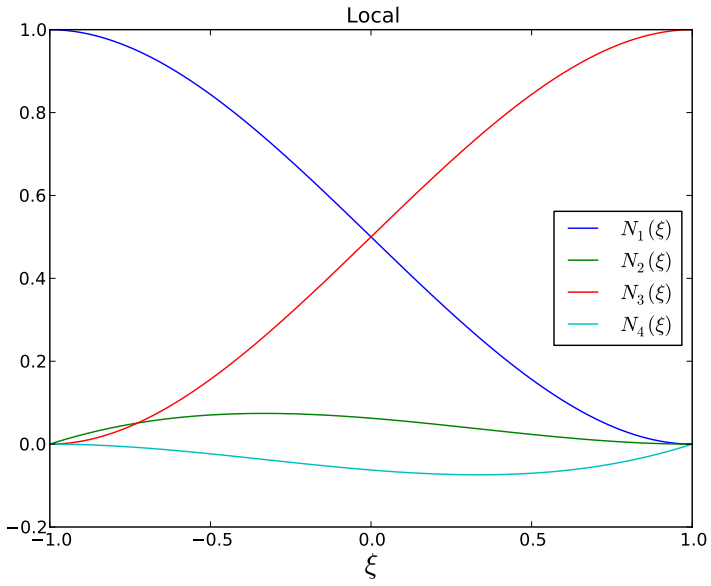
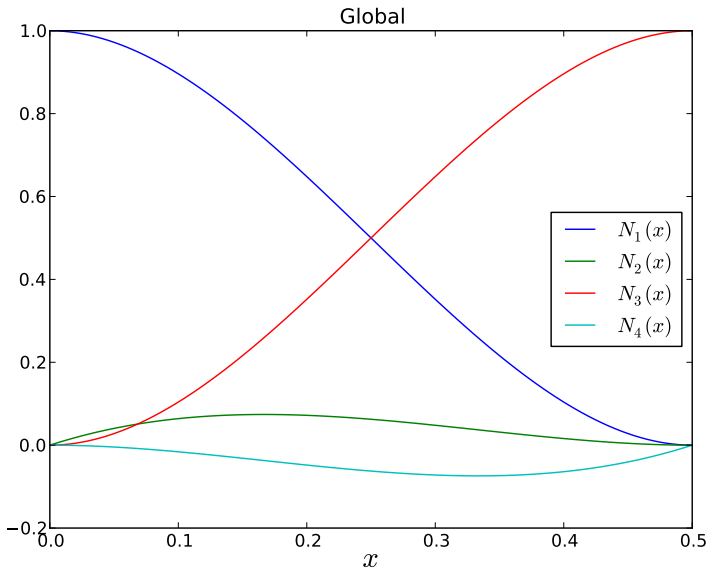
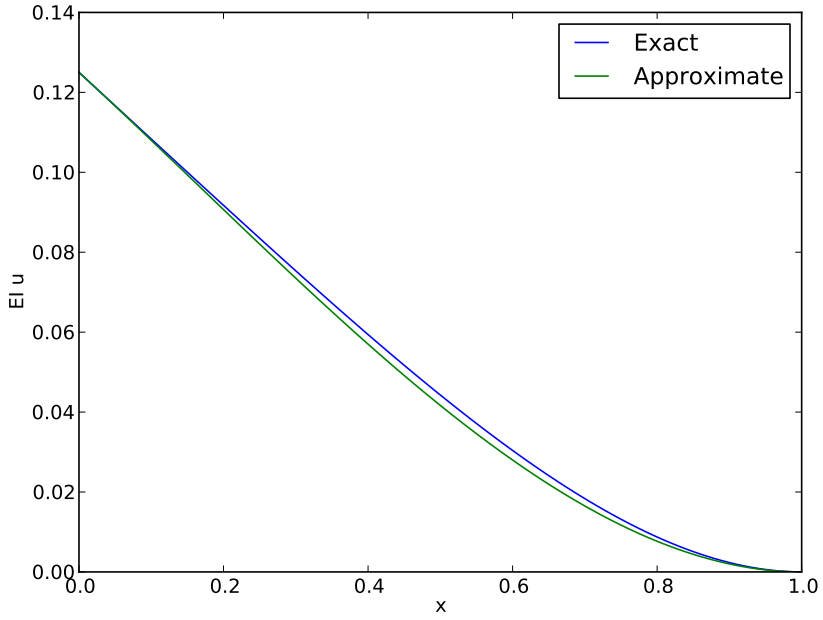
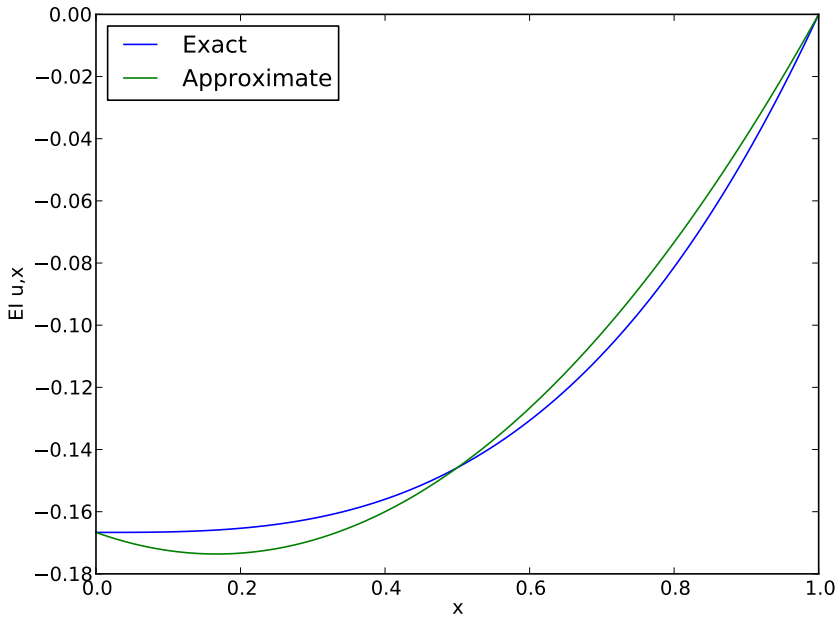
b) Plots of shape functions for $h = 0.5$.

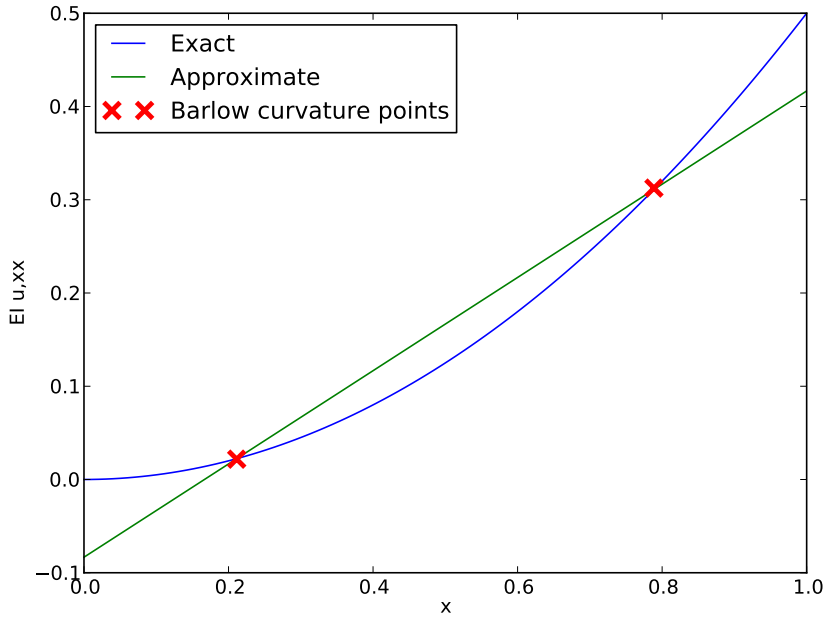




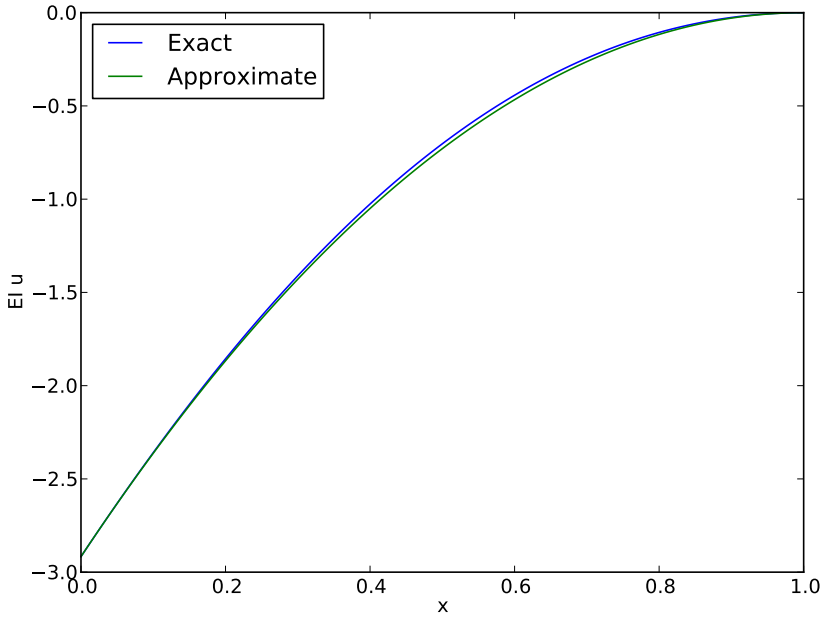
f) Results for $c = 1$, $M = Q = 0$.

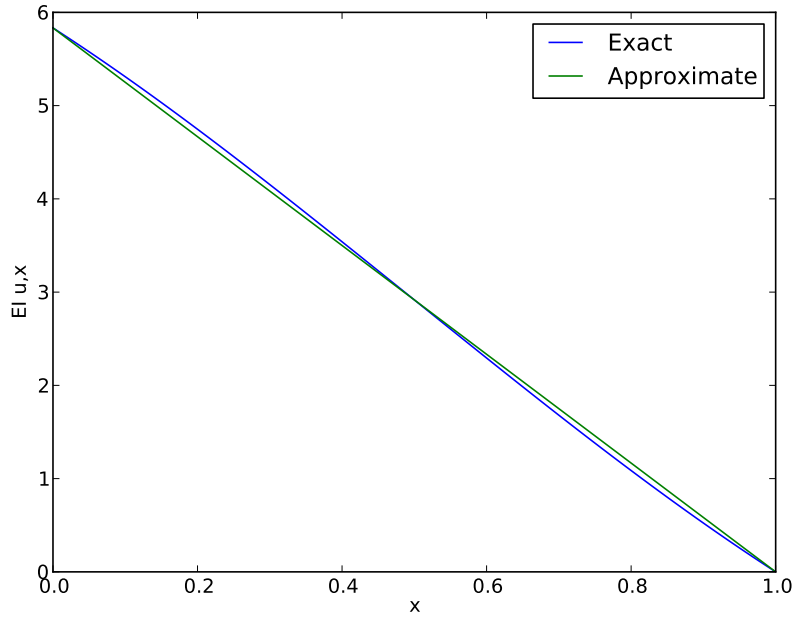


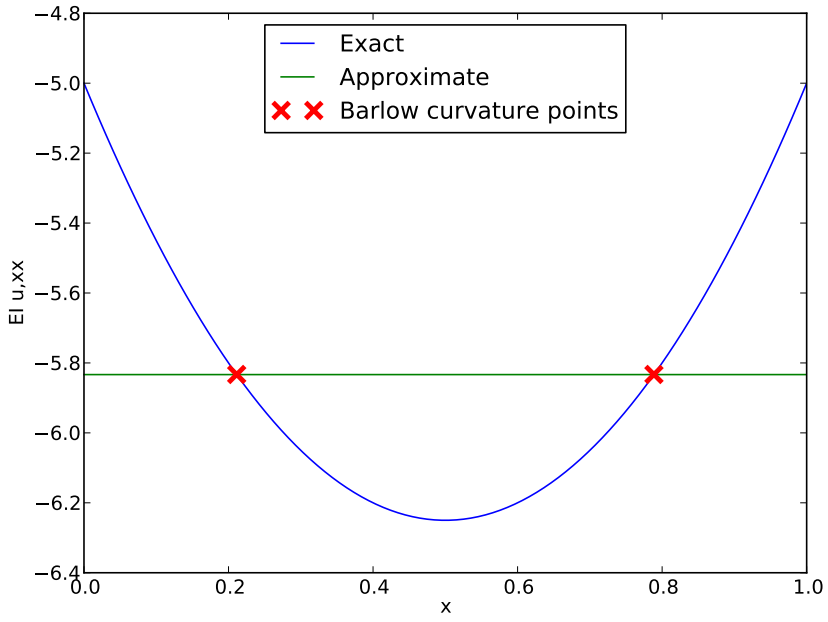

Exact
Approximate
EI u,x
x
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
0.0
0.2
0.4
0.6
0.8
1.0


Exact
Approximate
Barlow curvature points
EI u,xx
x
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
0.0
0.2
0.4
0.6
0.8
1.0

Results for $c = 10$, $M = Q = -5$.




Exact
Approximate
EI u,x
x
0
1
2
3
4
5
6
0.0
0.2
0.4
0.6
0.8
1.0


Exact
Approximate
Barlow curvature points
EI u,xx
x
−4.8
−5.0
−5.2
−5.4
−5.6
−5.8
−6.0
−6.2
−6.4
0.0
0.2
0.4
0.6
0.8
1.0