Pregunta 1

No s'ha respost encara

Puntuat sobre 10,00

In (1), set $f(x)=1.0~\forall~0\leq x\leq\pi$, and let $\{u_n\}_{n=1\div4}$ be the nodal solution of the BVP computed by the FEM using two elements: a quadratic one, $\Omega^1=[0,\pi/2]$, and a linear one, $\Omega^2=[\pi/2,\pi]$, where global nodes are numbered in ascending order from left to right (so node 1 is the leftmost and node 4 is the rightmost). Therefore:

- (a) (4 points) The component F_3 of the global load vector is
- O1.0472e+00
- O1.0367e+00
- OLeave it empty (no penalty)
- O1.0577e+00
- O1.0681e+00
- (b) (4 points) The value of u'_0 such that the value of u_2 is twice the value of u_3 is
- O2.8773e+00
- O2.9645e+00
- OLeave it empty (no penalty)
- O2.9354e+00
- O2.9063e+00

Hint. If f(x) was also constant, but half the given value, then u_0' would be $u_0'=$ 1.4532e+00.

- (c) (2 points) For the value of u_0^\prime found in (b), the corresponding value of Q_4 is
- OLeave it empty (no penalty)
- O-2.3997e-01
- O-2.3291e-01
- O-2.3526e-01
- O-2.3762e-01

Torna a començar Desa Emplena amb les respostes correctes

Envia i acaba

Tanca la previsualització

Informació tècnica -



Comportament que s'està utilitzant: Retroalimentació diferida

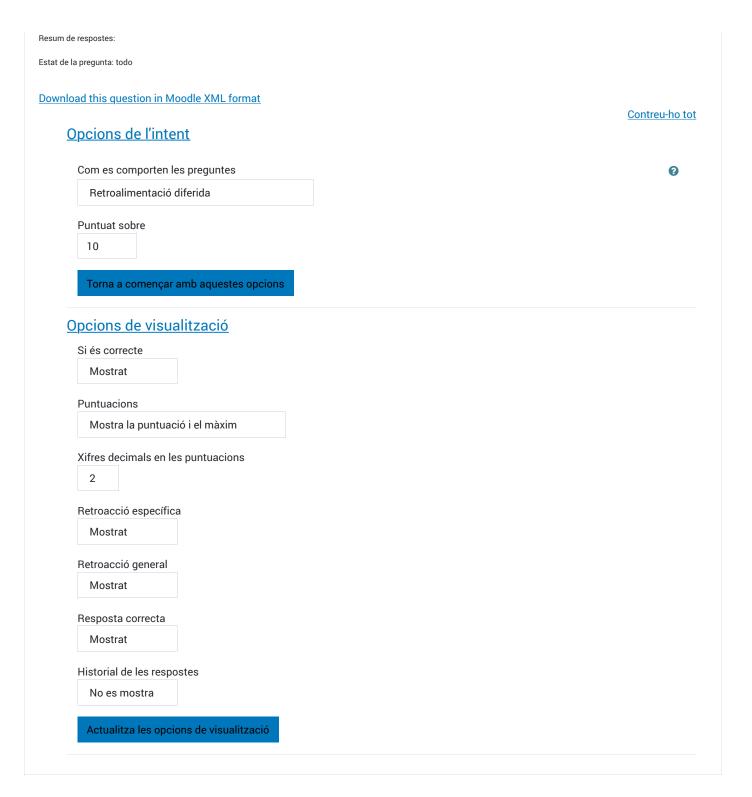
Fracció mínima: -0.25

Fracció màxima: 1

Variant de pregunta: 1

Resum de la resposta correcta: part 1: 1.0472e+00; part 2: 2.9063e+00; part 3: -2.3526e-01

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