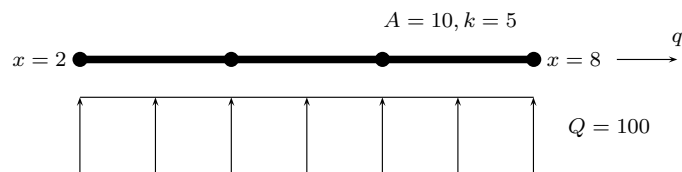


Numerical examples

- 1 Solve the temperature distribution for the 1-D heat flow problem shown below. Boundary conditions $T(x = 2) = 0$ and $q(x = 8) = 15$. First use three linear elements (also solved in Ottosen and Petersson) then 20 elements.



- 2 Solve the 2-dimensional heat flow problem. Boundary conditions are $T = 1000$ in the hole and $T = 100$ at the outer boundaries. Take advantage of the symmetry conditions. Assume isotropy and use $k = 1$ (heat conduction) for simplicity. (Use the element command flw2te in Calfem)

