ME 478 Homework #8

Please show your work and draw a box around your answer to receive full credit.

1) Construct the conductance matrices for the elements shown in Figure 1. Assemble the matrices to obtain the global conduction matrix.

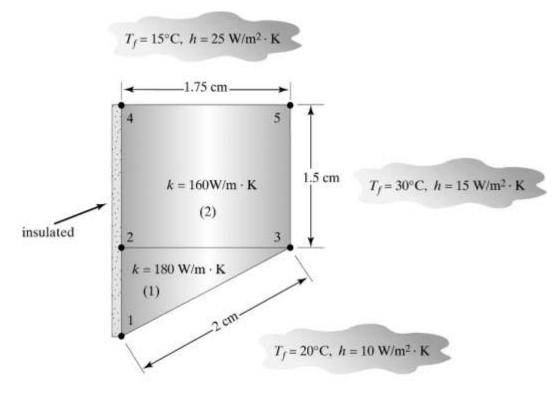


Figure 1.

- 2) Construct the load matrix for each element in Figure 1. Assemble the load matrices to construct the global load matrix.
- 3) What is the temperature at the midpoint of element 2?