WEEK 1

Find the rate of the heat through the wall.

A short summary about the conductive heat transfer and solving the same exercise with L= 0.4 m, A= 20 m2, Delta T= 25, and k=0.78 W/m K using both simple method and using the resistance concept.



 $Q^{\circ} = kA * \Delta T/L = 0.78 * 20 * 25/0.4 = 975W$



R wall = L/kA = 0.4 / 0.78*20 \approx 0.0256 Q° = Δ T/R wall = 25/0.0256 \approx 976.56 W