**WEEK3**

**Question1:**

Heat through a composite wall

1)



1. When the thickness of the brick is increased to 32 cm



When the length extension lengths of the parallel plates are parallel, the total thermal resistance of the parallel plates also becomes the original pair, but the total thermal resistance of the composite plates does not change much, so the influence on the transfer variables is not obvious.

**Question2**

Heat transfer through the simplified wall

|  |  |  |
| --- | --- | --- |
|  | wood | Insulation |
| Outside air | 0.03 | 0.03 |
| Wood bevel | 0.14 | 0.14 |
| urethane rigid foam insulation | NO | 0.98\*90/25=3.528 |
| Wood studs(90mm) | 0.63 | NO |
| gypsum wallboard | 0.079 | 0.079 |
| wood plywood | 0.11 | 0.11 |
| Inside air | 0.12 | 0.12 |

