**RESULTS:**

Parameters:

Length of fin = 1  
Number of cells= 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | BOUNDARY TYPE | | BOUNDARY VALUE | |
| EAST | | Dirichlet | | 100 (Sink) | |
| WEST | | Dirichlet | | 100 (Sink) | |
| Ambient Temperature= 20 | | | | | |
|  | 1 | | 1 | | 1 |
|  | -1 | | 0 | | 1 |

Length of fin = 1  
Number of cells= 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | BOUNDARY TYPE | | BOUNDARY VALUE | |
| WEST | | Dirichlet | | 100 (Sink) | |
| EAST | | Neumann | | 0 (Homogeneous) | |
| Ambient Temperature= 20 | | | | | |
|  | 1 | | 1 | | 1 |
|  | -1 | | 0 | | 1 |

Length of fin = 1  
Number of cells= 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | BOUNDARY TYPE | | BOUNDARY VALUE | |
| EAST | | Dirichlet | | 100 (Sink) | |
| WEST | | Neumann | | 2 (Non-homogenous) | |
| Ambient Temperature= 20 | | | | | |
|  | 1 | | 1 | | 1 |
|  | -1 | | 0 | | 1 |

Length of fin = 1  
Number of cells= 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | BOUNDARY TYPE | | BOUNDARY VALUE | |
| EAST | | Dirichlet | | 100 (Sink) | |
| WEST | | Neumann | | -2 (Non-Homogenous) | |
| Ambient Temperature= 20 | | | | | |
|  | 1 | | 1 | | 1 |
|  | -1 | | 0 | | 1 |

Length of fin = 1  
Number of cells= 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | BOUNDARY TYPE | | BOUNDARY VALUE | |
| EAST | | Dirichlet | | 100 (Sink) | |
| WEST | | Robin’s | | 5 | |
| Ambient Temperature= 20 | | | | | |
|  | 1 | | 1 | | 1 |
|  | -1 | | 0 | | 1 |

Length of fin = 1  
Number of cells= 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | BOUNDARY TYPE | | BOUNDARY VALUE | |
| EAST | | Dirichlet | | 100 (Sink) | |
| WEST | | Robin’s | | -5 | |
| Ambient Temperature= 20 | | | | | |
|  | 1 | | 1 | | 1 |
|  | -1 | | 0 | | 1 |