|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Average Error L1/n | | | |
| Explicit Upwind FTBS | Implicit Upwind FTBS | Lax-Wendroff | Implicit FTCS |
| 0 | 0 | 0 | 0 | 0 |
| 0.1 | 0.016738 | 0.03893 | 0.008151 | 0.020022 |
| 0.2 | 0.0293 | 0.06214 | 0.012977 | 0.032644 |
| 0.3 | 0.039663 | 0.078761 | 0.017366 | 0.042764 |
| 0.4 | 0.048527 | 0.091154 | 0.021775 | 0.051641 |
| 0.5 | 0.056244 | 0.100792 | 0.025805 | 0.059417 |

Delta t = 0.01

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Average Error L1/n | | | |
| Explicit Upwind FTBS | Implicit Upwind FTBS | Lax-Wendroff | Implicit FTCS |
| 0 | 0 | 0 | 0 | 0 |
| 0.1 | 0 | 0.04706 | 0 | 0.030596 |
| 0.2 | 0 | 0.072887 | 0 | 0.049435 |
| 0.3 | 0 | 0.090625 | 0 | 0.063798 |
| 0.4 | 0 | 0.103246 | 0 | 0.075159 |
| 0.5 | 0 | 0.112754 | 0 | 0.085101 |

Delta t = 0.02

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Average Error L1/n | | | |
| Explicit Upwind FTBS | Implicit Upwind FTBS | Lax-Wendroff | Implicit FTCS |
| 0 | 0 | 0 | 0 | 0 |
| 0.1 | 0.023305 | 0.034164 | 0.011103 | 0.015347 |
| 0.2 | 0.039595 | 0.055685 | 0.017121 | 0.023747 |
| 0.3 | 0.052448 | 0.071439 | 0.022614 | 0.030735 |
| 0.4 | 0.062986 | 0.083511 | 0.028646 | 0.037263 |
| 0.5 | 0.071818 | 0.093091 | 0.033246 | 0.042774 |

Delta t = 0.005