OHWO JAMES OTAOGHENE

17/ENG03/039

CIVIL ENGINEERING

ENG302

|  |  |  |
| --- | --- | --- |
| 1 |   |   |
|  | Location, |   |
|  | **I** |   |
|  | Time, **t** (day) |   | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|  | 0 | 3.2 | 3.3 | 3.5 | 3.52 | 3.63 | 3.93 | 4.7 |
|  | 1 | 3.32 | 3.21942955 | 3.02743 | 3.02148 | 2.92884 | 2.65739 | 1.94565 |
|  | 2 | 3.44 | 3.53427922 | 3.71182 | 3.69808 | 3.76878 | 4.00853 | 4.66143 |
|  | 3 | 3.56 | 3.46498716 | 3.29449 | 3.31974 | 3.26184 | 3.0434 | 2.43664 |
|  | 4 | 3.68 | 3.76888013 | 3.92585 | 3.88331 | 3.92348 | 4.11682 | 4.67565 |
|  | 5 | 3.8 | 3.71023225 | 3.55941 | 3.61119 | 3.57993 | 3.4019 | 2.8794 |
|  | 6 | 3.92 | 4.00378464 | 4.14193 | 4.07501 | 4.09215 | 4.2505 | 4.73389 |
| dx | 1125 | k | c0 | c1 | c2 |  |
| dt | 86400 | 1250 | 0.971477 | 1 | -0.97148 |  |
| c | 0.9 |  |  |  |  |  |
| x | 0.5 |  |  |  |  |  |
|   |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
|  | time | i | c0qi^t+1 | c1qi^t | c2qi+1^t | o |  |
|  | 6 | 10 |  |  |  | 10 |  |
|  | 12 | 30 | 3.747017 | 3.524264121 | 5.22673 | 12.49801 |  |
|  | 18 | 68 | 8.493238 | 10.57279236 | 6.532373 | 25.5984 |  |
|  | 24 | 50 | 6.245028 | 23.96499602 | 13.3796 | 43.58962 |  |
|  | 30 | 40 | 4.996022 | 17.6213206 | 22.78312 | 45.40046 |  |
|  | 36 | 31 | 3.871917 | 14.09705648 | 23.7296 | 41.69857 |  |
|  | 42 | 23 | 2.872713 | 10.92521877 | 21.79472 | 35.59265 |  |
|  | 48 | 30 | 3.747017 | 8.105807478 | 18.60332 | 30.45614 |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 2b |  |  |  |  |  |  |
|  | time | i | c0qi^t+1 | c1qi^t | c2qi+1^t | o |
|  | 6 | 10 |  |  |  | 10 |
|  | 12 | 30 | 6.428571 | 2.142857143 | 5.714286 | 14.28571 |
|  | 18 | 68 | 14.57143 | 6.428571429 | 8.163265 | 29.16327 |
|  | 24 | 50 | 10.71429 | 14.57142857 | 16.66472 | 41.95044 |
|  | 30 | 40 | 8.571429 | 10.71428571 | 23.97168 | 43.25739 |
|  | 36 | 31 | 6.642857 | 8.571428571 | 24.71851 | 39.9328 |
|  | 42 | 23 | 4.928571 | 6.642857143 | 22.81874 | 34.39017 |
|  | 48 | 30 | 6.428571 | 4.928571429 | 19.65153 | 31.00867 |
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