

Runge Kutta Method - In Class Example

| t (s) | Euler (C) | RK2 Midpoint (C) | RK 4 (Q1, Q2, Q3, Q4) (C) | Closed Form (C) |
|-------|-----------|------------------|---------------------------------|-----------------|
| 0 | 5 | 5 | 5 | 5 |
| .5 | 2.5 | 3.125 | 3.034 (2.50, 3.13, 2.97, 3.52) | 3.03 |
| 1 | 1.25 | 1.953 | 1.84 (1.52, 1.90, 1.80, 2.13) | 1.84 |