```
>> f = @(t, y) t^2*y;
interval = [0, 1];
y0 = 1;
h = 0.1;
y_exact = @(t)exp(t^3/3);
[t, w] = explicittrap(f, interval, y0, h, y_exact);
Step | t       | Approximation w | Global Truncation Error
-------------------------------------------------------------
   1  | 0.100000 | 1.050500 | 0.050167
   2  | 0.200000 | 1.103654 | 0.100983
   3  | 0.300000 | 1.163055 | 0.154014
   4  | 0.400000 | 1.232910 | 0.211348
   5  | 0.500000 | 1.318295 | 0.275748
   6  | 0.600000 | 1.425575 | 0.350919
   7  | 0.700000 | 1.563079 | 0.441953
   8  | 0.800000 | 1.742140 | 0.556044
   9  | 0.900000 | 1.978709 | 0.703640
  10  | 1.000000 | 2.295933 | 0.900321
>>  [t, w] = euler(f, interval, y0, h, y_exact);
Step | t       | Approximation w | Global Truncation Error
-------------------------------------------------------------
   1  | 0.100000 | 1.000000 | 0.000333
   2  | 0.200000 | 1.001000 | 0.001670
   3  | 0.300000 | 1.005004 | 0.004037
   4  | 0.400000 | 1.014049 | 0.007513
   5  | 0.500000 | 1.030274 | 0.012273
   6  | 0.600000 | 1.056031 | 0.018625
   7  | 0.700000 | 1.094048 | 0.027078
   8  | 0.800000 | 1.147656 | 0.038439
   9  | 0.900000 | 1.221106 | 0.053963
  10  | 1.000000 | 1.320016 | 0.075597
>> [t, w] = rk4(f, interval, y0, h, y_exact);
Step | t       | Approximation w | Global Truncation Error
-------------------------------------------------------------
   1  | 0.100000 | 1.000333 | 0.000000
   2  | 0.200000 | 1.002670 | 0.000000
   3  | 0.300000 | 1.009041 | 0.000000
   4  | 0.400000 | 1.021563 | 0.000000
   5  | 0.500000 | 1.042547 | 0.000000
   6  | 0.600000 | 1.074655 | 0.000000
   7  | 0.700000 | 1.121126 | 0.000000
   8  | 0.800000 | 1.186095 | 0.000000
   9  | 0.900000 | 1.275069 | 0.000000
  10  | 1.000000 | 1.395612 | 0.000000
>>  [t, w] = adamsbashforth(f, interval, y0, h, y_exact);
Step | t       | Approximation w | Global Truncation Error
-------------------------------------------------------------
   1  | 0.100000 | 1.000000 | 0.000000
   2  | 0.200000 | 1.001500 | 0.001170
```

```
   3  | 0.300000 | 1.007009 | 0.002032
   4  | 0.400000 | 1.018601 | 0.002962
   5  | 0.500000 | 1.038515 | 0.004031
   6  | 0.600000 | 1.069311 | 0.005344
   7  | 0.700000 | 1.114072 | 0.007053
   8  | 0.800000 | 1.176709 | 0.009386
   9  | 0.900000 | 1.262378 | 0.012690
  10  | 1.000000 | 1.378103 | 0.017510
```