```
u" = 400u - 401sinx
u(0) = 0, u(1) = \sin 1
************
h = 0.25
n = 3
D = 0.229630; Y = 0.247340
D = 0.454035; Y = 0.478181
D = 0.651044; Y = 0.651044
*************
h = 0.125
n = 8
D = 0.094697; Y = 0.124684
D = 0.202330; Y = 0.247390
D = 0.307327; Y = 0.366284
D = 0.407342; Y = 0.479140
D = 0.501168; Y = 0.583497
D = 0.587118; Y = 0.669085
D = 0.666139; Y = 0.666139
***************
h = 0.0625
n = 16
D = 0.027412; Y = 0.062400
D = 0.067867; Y = 0.124645
D = 0.110401; Y = 0.186336
D = 0.152939; Y = 0.247381
D = 0.194936; Y = 0.307459
D = 0.236157; Y = 0.366301
D = 0.276419; Y = 0.423660
D = 0.315546; Y = 0.479317
D = 0.353605; Y = 0.533124
D = 0.390135; Y = 0.584390
D = 0.425236; Y = 0.632360
D = 0.458578; Y = 0.674253
D = 0.490180; Y = 0.702087
D = 0.519927; Y = 0.689823
```

D = 0.553064; Y = 0.553064

```
y'' = x + y
y(0) = y(1) = 0
*************
h = 0.25
n = 4
D = -0.007576; Y = -0.034885
D = -0.024610; Y = -0.056326
D = -0.050037; Y = -0.050037
*************
h = 0.125
n = 8
D = -0.000969; Y = -0.018337
D = -0.003208; Y = -0.035007
D = -0.006680; Y = -0.048318
D = -0.011331; Y = -0.056524
D = -0.017100; Y = -0.057801
D = -0.023914; Y = -0.050216
D = -0.031696; Y = -0.031696
*************
h = 0.0625
n = 16
D = -0.000122; Y = -0.009280
D = -0.000405; Y = -0.018353
D = -0.000850; Y = -0.027008
D = -0.001452; Y = -0.035037
D = -0.002212; Y = -0.042227
D = -0.003125; Y = -0.048360
D = -0.004189; Y = -0.053217
D = -0.005401; Y = -0.056574
D = -0.006756; Y = -0.058198
D = -0.008251; Y = -0.057852
D = -0.009881; Y = -0.055291
D = -0.011642; Y = -0.050261
D = -0.013528; Y = -0.042497
D = -0.015536; Y = -0.031725
```

D = -0.017659; Y = -0.017659

```
y'' = y
y(0) = 0, y(1) = -1
************
h=0.25
n=3
D = -0.000000; Y = -0.215115
D = -0.000000; Y = -0.443674
D = -0.699963; Y = -0.699963
*************
h=0.125
n=8
D = -0.000000; Y = -0.106663
D = -0.000000; Y = -0.214993
D = -0.000000; Y = -0.326682
D = -0.000000; Y = -0.443476
D = -0.000000; Y = -0.567199
D = -0.000000; Y = -0.699784
D = -0.843304; Y = -0.843304
*************
h=0.0625
n=16
D = -0.000000; Y = -0.053220
D = -0.000000; Y = -0.106647
D = -0.000000; Y = -0.160491
D = -0.000000; Y = -0.214963
D = -0.000000; Y = -0.270273
D = -0.000000; Y = -0.326640
D = -0.000000; Y = -0.384282
D = -0.000000; Y = -0.443426
D = -0.000000; Y = -0.504302
D = -0.000000; Y = -0.567147
D = -0.000000; Y = -0.632209
D = -0.000000; Y = -0.699739
D = -0.000000; Y = -0.770003
D = -0.000000; Y = -0.843275
D = -0.919841; Y = -0.919841
```