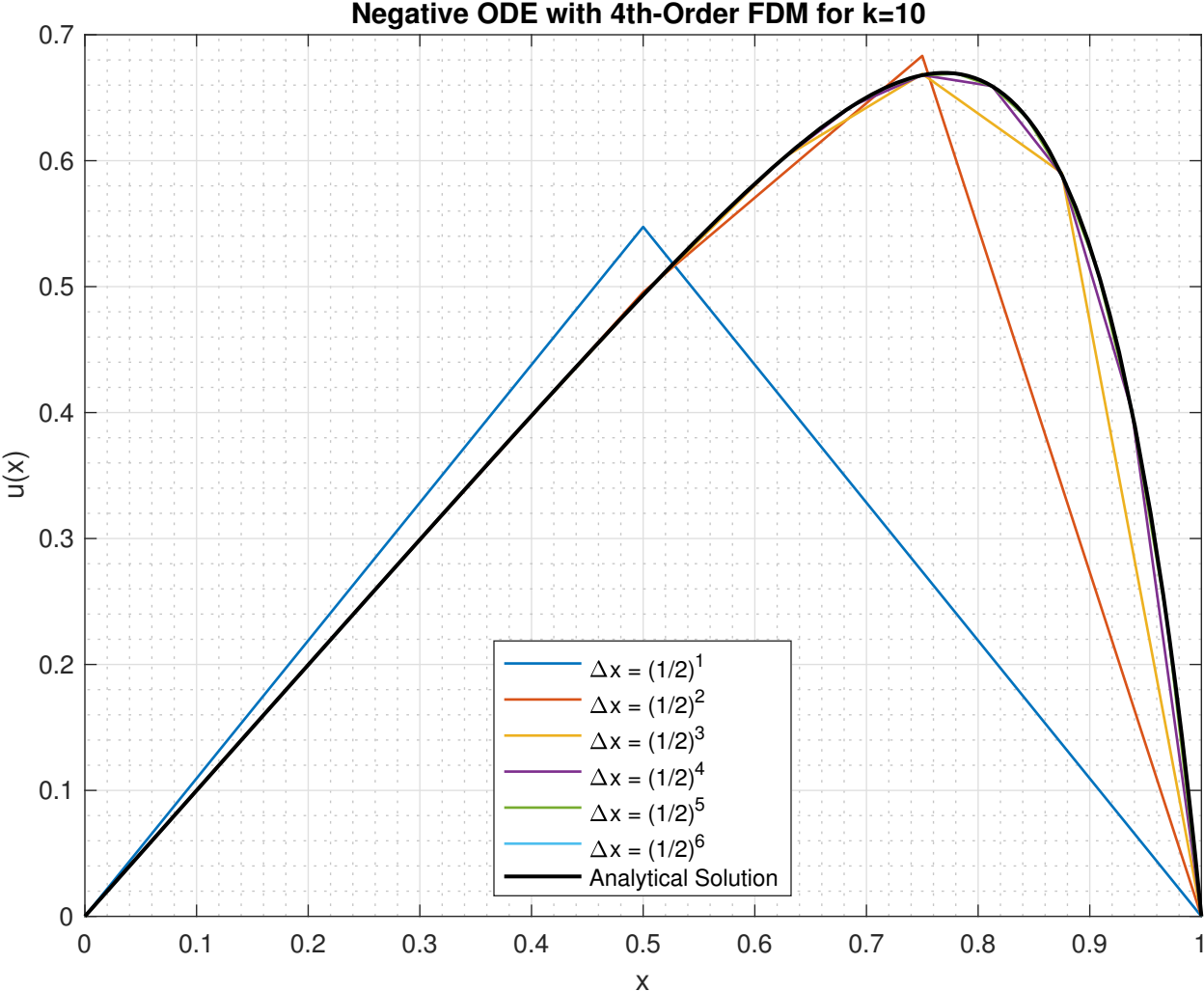
Negative ODE with 4th-Order FDM for k=10
u(x)
x
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Δx = (1/2)^1
Δx = (1/2)^2
Δx = (1/2)^3
Δx = (1/2)^4
Δx = (1/2)^5
Δx = (1/2)^6
Analytical Solution