h	0.8		dauf/dauy	-1
x	f(xn,yn)	y	y_exact	Error
0		0	0	0
0.8	0	0	0.249329	-1
1.6	0.8	0.64	0.801897	-0.20189
2.4	0.96	1.408	1.490718	-0.05549
3.2	0.992	2.2016	2.240762	-0.01748
4	0.9984	3.00032	3.018316	-0.00596
4.8	0.99968	3.800064	3.80823	-0.00214
5.6	0.999936	4.600013	4.603698	-0.0008
6.4	0.999987	5.400003	5.401662	-0.00031
7.2	0.999997	6.200001	6.200747	-0.00012
8	0.999999	7	7.000335	-4.8E-05
8.8	1	7.8	7.800151	-1.9E-05
9.6	1	8.6	8.600068	-7.9E-06
10.4	1	9.4	9.40003	-3.2E-06
11.2	1	10.2	10.20001	-1.3E-06
12	1	11	11.00001	-5.6E-07
12.8	1	11.8	11.8	-2.3E-07
13.6	1	12.6	12.6	-9.8E-08
14.4	1	13.4	13.4	-4.2E-08
15.2	1	14.2	14.2	-1.8E-08
16	1	15	15	-7.5E-09
16.8	1	15.8	15.8	-3.2E-09
17.6	1	16.6	16.6	-1.4E-09
18.4	1	17.4	17.4	-5.9E-10
19.2	1	18.2	18.2	-2.5E-10
20	1	19	19	-1.1E-10
20.8	1	19.8	19.8	-4.7E-11
21.6	1	20.6	20.6	-2E-11
22.4	1	21.4	21.4	-8.7E-12
23.2	1	22.2	22.2	-3.8E-12
24	1	23	23	-1.6E-12

$$\frac{dy}{dx} = (x - y)$$

$$y = e^{-x} + x - 1$$

Solution