

Console

x		y		d	d2
		d3			
1.000000	1.000000	0.004990	-0.000030	0.000010	
1.010000	1.004990	0.004960	-0.000020	-0.000010	
1.020000	1.009950	0.004940	-0.000030	0.000020	
1.030000	1.014890	0.004910	-0.000010	-0.000030	
1.040000	1.019800	0.004900	-0.000040	0.000030	
1.050000	1.024700	0.004860	-0.000010	-0.000020	
1.060000	1.029560	0.004850	-0.000030	0.000010	
1.070000	1.034410	0.004820	-0.000020	0.000000	
1.080000	1.039230	0.004800	-0.000020	-0.000000	
1.090000	1.044030	0.004780	-0.000020	-0.000010	
1.100000	1.048810	0.004760	-0.000030	0.000010	
1.110000	1.053570	0.004730	-0.000020	0.000010	
1.120000	1.058300	0.004710	-0.000010	-0.000020	
1.130000	1.063010	0.004700	-0.000030	0.000010	
1.140000	1.067710	0.004670	-0.000020		
1.150000	1.072380	0.004650			
1.160000	1.077030				

$y_1(1.125) = 0.470958$ (exact value = 0.4771404)

$y_2(1.125) = -0.2$ (exact value = -0.20951)

$y_3(1.125) = 10$ (exact value = 0.27935)