
CS 374 : COMPUTATIONAL AND NUMERICAL METHODS
SET 18

TWO-POINT BOUNDARY VALUE PROBLEM

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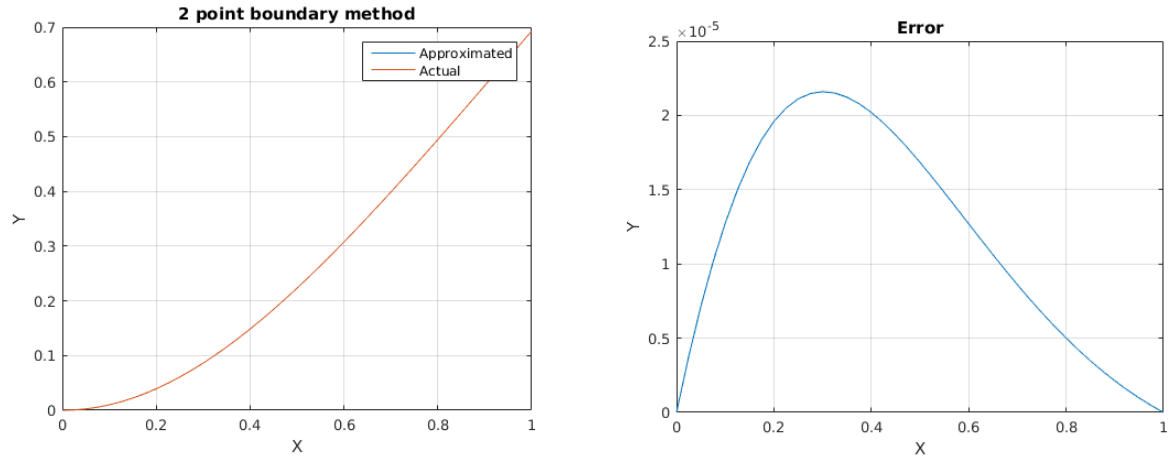


Figure 1: Comparison of Approximation

x	y	$actual$	$error$
0.1	0.0099376	0.0099503	1.2739e-05
0.2	0.039201	0.039221	1.9591e-05
0.3	0.086156	0.086178	2.1597e-05
0.4	0.1484	0.14842	2.0196e-05
0.5	0.22313	0.22314	1.6836e-05
0.6	0.30747	0.30748	1.2698e-05
0.7	0.39877	0.39878	8.5988e-06
0.8	0.49469	0.4947	5.0064e-06
0.9	0.59332	0.59333	2.1278e-06