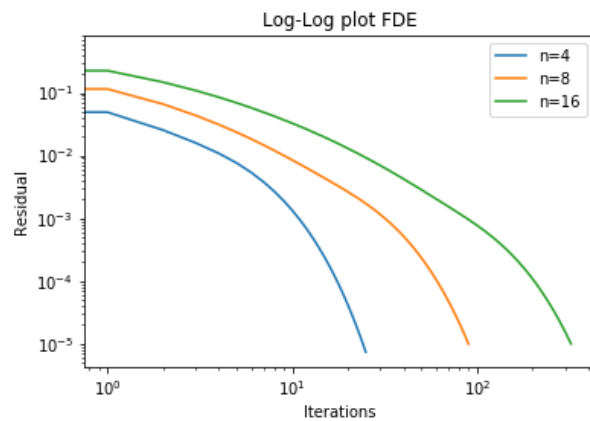


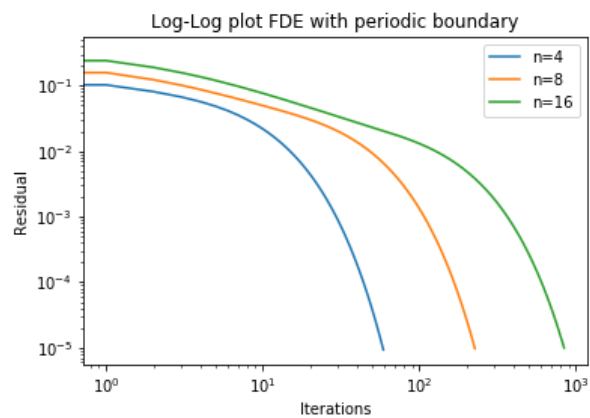
Problem 1.



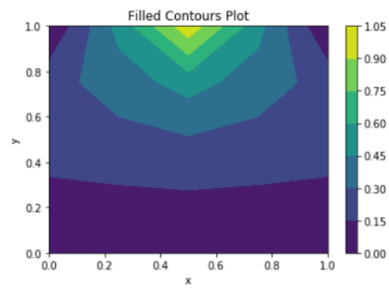
n	Error	# of Iterations	Error Ratio
4	0.0024391	27	
8	0.000678665	92	~ 3.6
16	0.000150453	325	~4.5

As n increase or h decrease the error reduces. Maybe because as the grid become more denser the approximation by FDE become more accurate. The error decrease by a factor of 4 as we divide the h by 2.

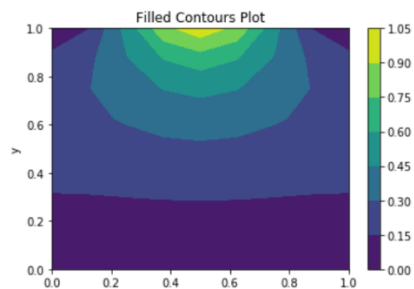
Problem 2



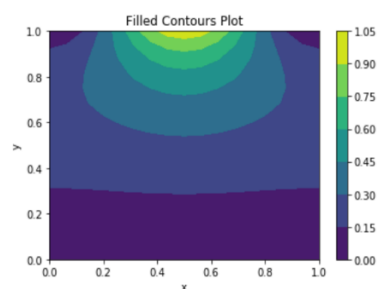
n	# of Iterations
4	61
8	229
16	845



$N = 4$



$n = 8$



$n = 16$