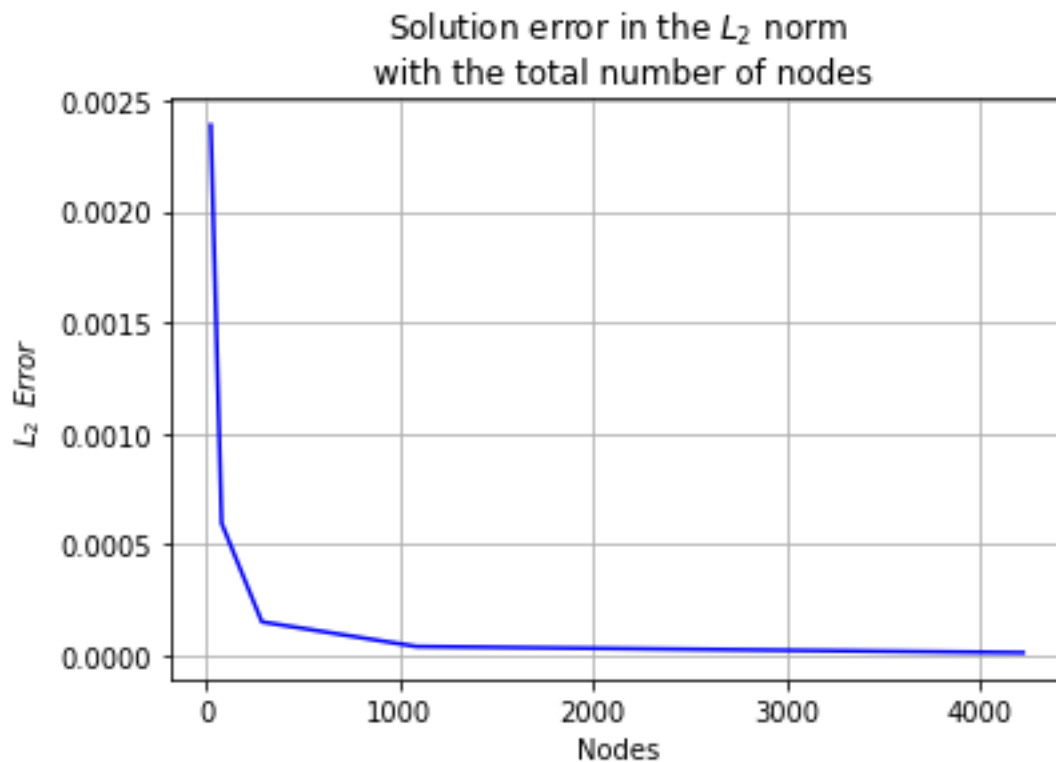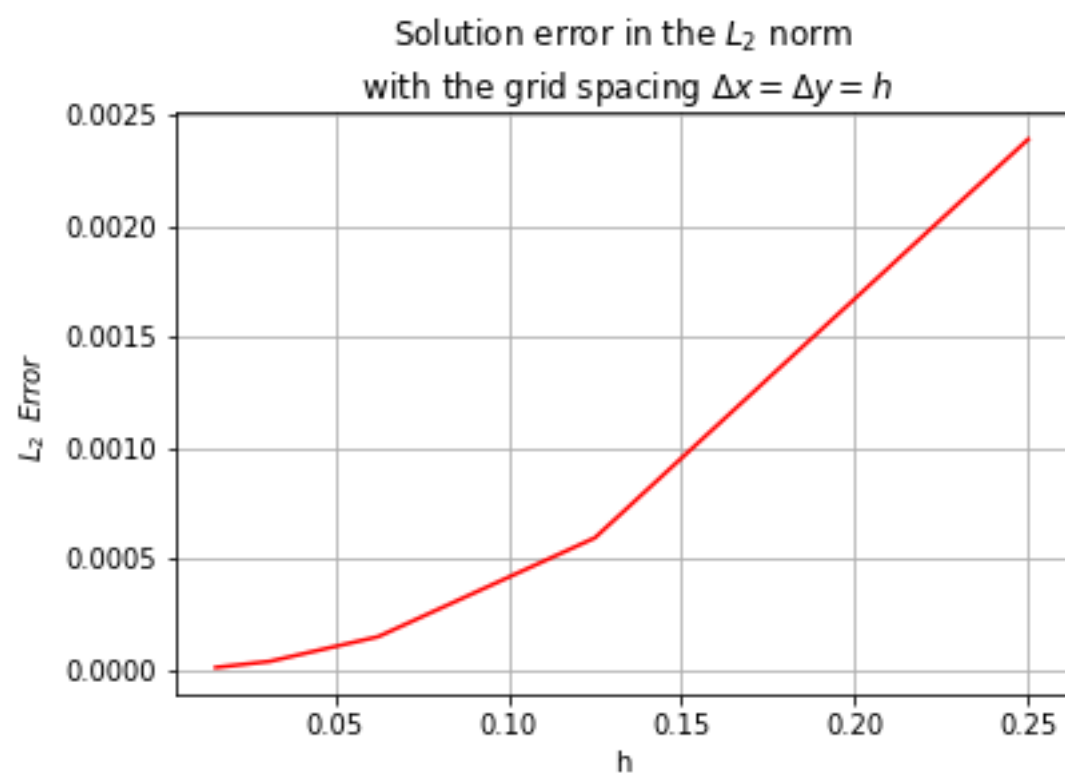ElhamPillvar-260969214

MATH 579-Error plot for different h

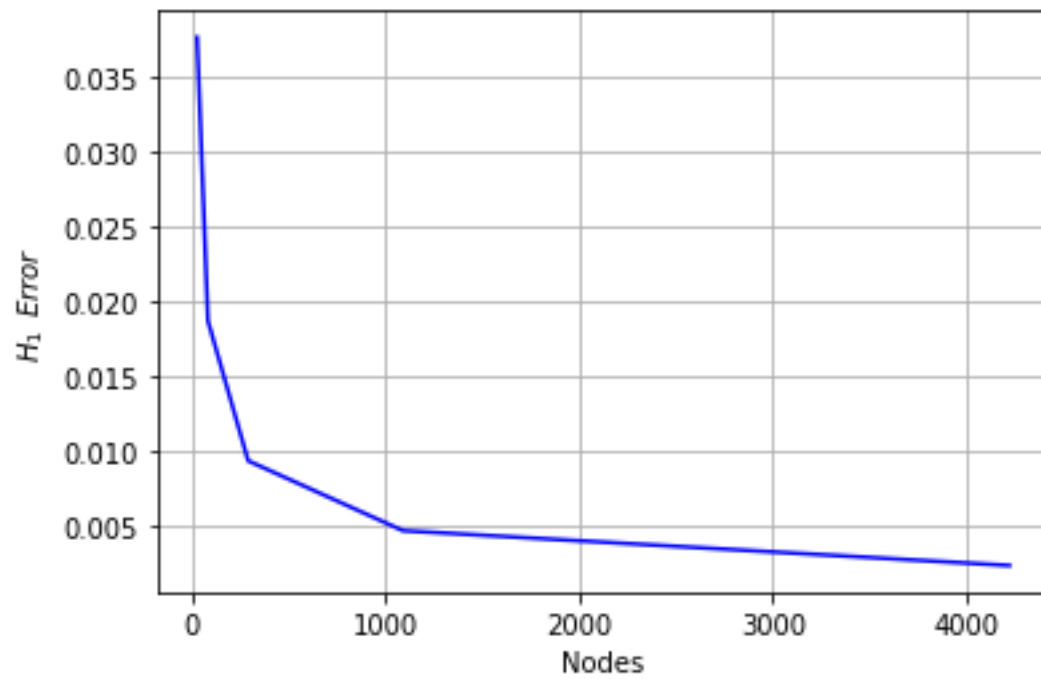| Total Nodes	Total Elements	h
L2_error	H1_error	
i= 4		
25	16	0.250000
0.00238879	0.0376132	
i= 8		
81	64	0.125000
0.000593419	0.0186772	
i= 16		
289	256	0.062500
0.000148097	0.00932236	
i= 32		
1089	1024	0.031250
3.70079e-05	0.00465915	
i= 64		
4225	4096	0.015625
9.25093e-06	0.00232932	

Solution error in the L_2 norm
with the total number of nodes

Solution error in the L_2 norm with the total number of elements

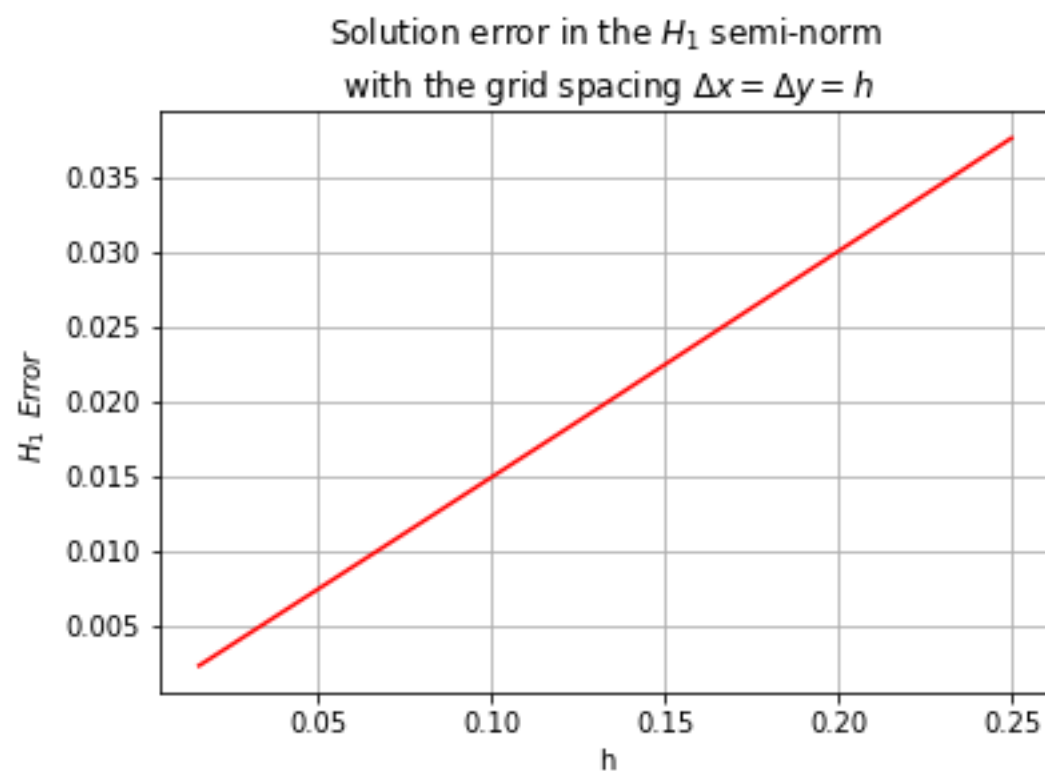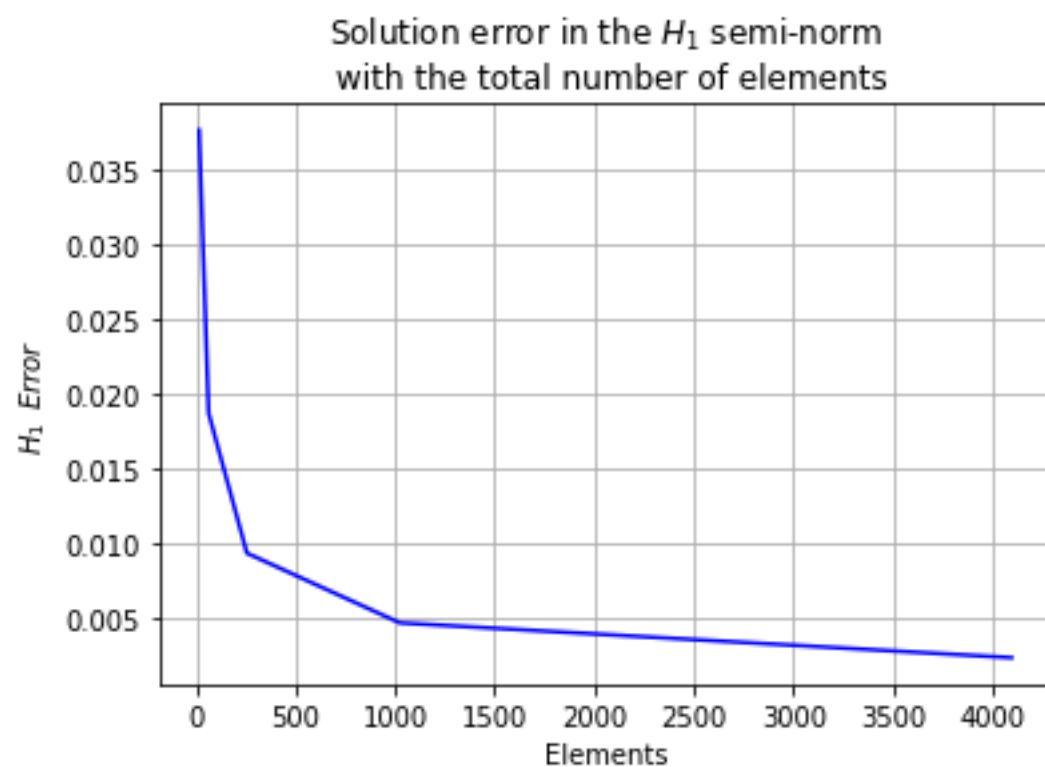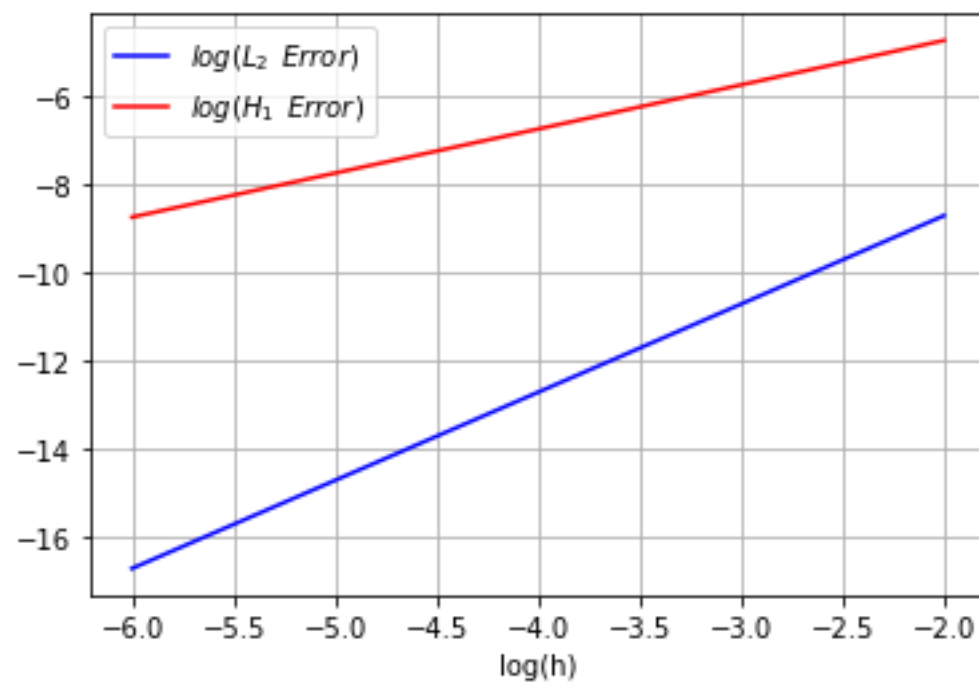## Solution error in the L_2 norm with the grid spacing $\Delta x = \Delta y = h$

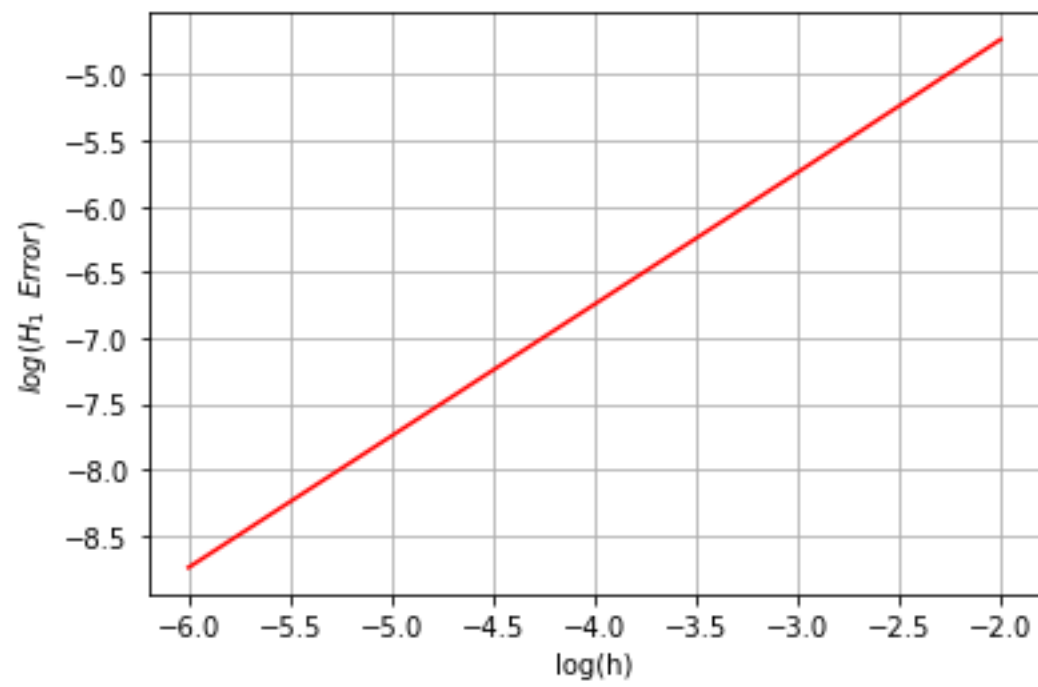Solution error in the H_1 semi-norm
with the total number of nodes

Solution error in the H_1 semi-norm with the total number of elements

Solution error in the H_1 semi-norm with the grid spacing $\Delta x = \Delta y = h$

In [2]: