

-----10¹ matrix: -----

time_speedy= 2.5272369384765625e-05

time_std= 3.600120544433594e-05

time_LU= 0.00018405914306640625

---- difference between the speedy solver -----

LU: 0.00015878677368164062

Standard: 1.0728836059570312e-05

-----10² matrix: -----

time_speedy= 0.00012683868408203125

time_std= 0.000209808349609375

time_LU= 0.0006561279296875

---- difference between the speedy solver -----

LU: 0.0005292892456054688

Standard: 8.296966552734375e-05

-----10³ matrix: -----

time_speedy= 0.001138925552368164

time_std= 0.002460956573486328

time_LU= 0.05413484573364258

---- difference between the speedy solver -----

LU: 0.052995920181274414

Standard: 0.001322031021118164

-----10⁴ matrix: -----

time_speedy= 0.02215409278869629

time_std= 0.033178091049194336

time_LU= 16.395947217941284

---- difference between the speedy solver -----

LU: 16.373793125152588

Standard: 0.011023998260498047

Speedy solver vs standard solver

-----10⁵ matrix: -----

time_speedy= 0.11815381050109863

time_std= 0.20401906967163086

---- difference between the speedy solver -----

Standard: 0.08586525917053223

-----10⁶ matrix: -----

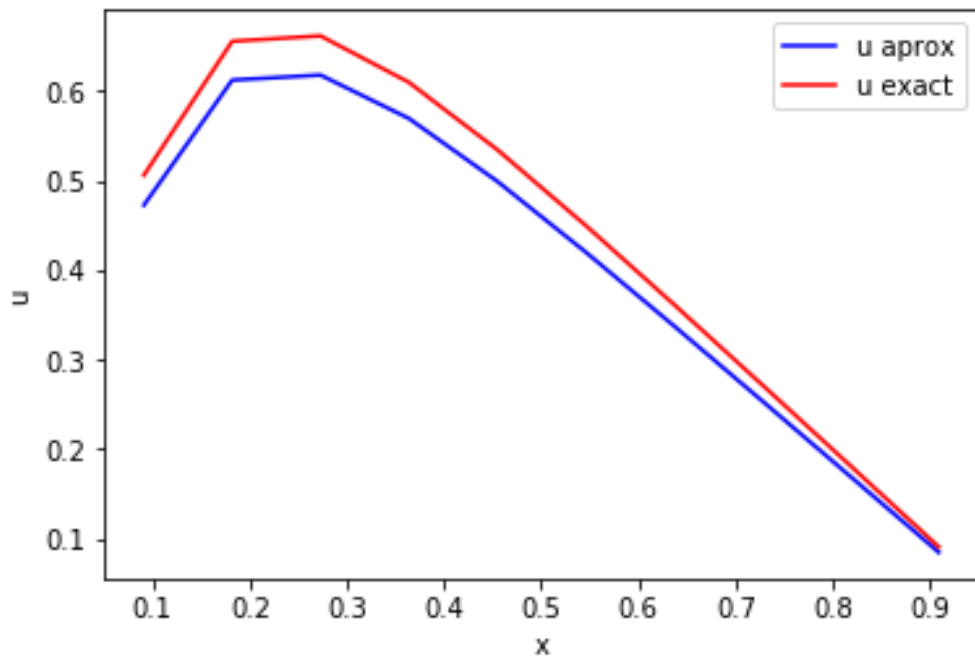
time_speedy= 1.2248408794403076

time_std= 2.1686089038848877

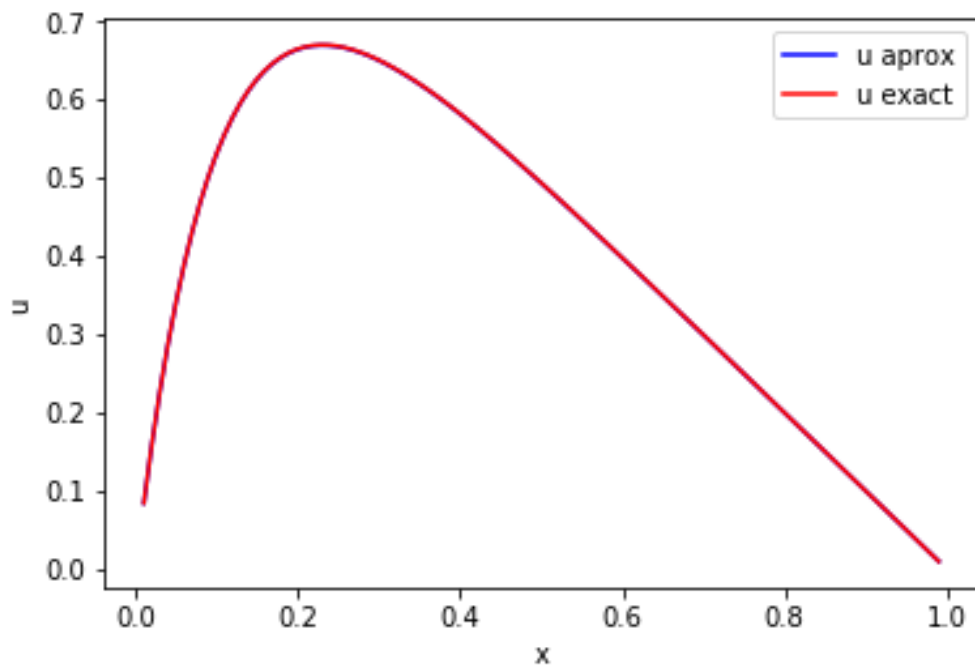
---- difference between the speedy solver -----

Standard: 0.9437680244445801

-----10¹ matrix -----
rel_max = 0.06611533728553903



-----10² matrix -----
rel_max = 0.0008165131217430525



-----10³ matrix -----
rel_max = 8.316650166120728e-06
-----10⁴ matrix -----
rel_max = 8.331744595067102e-08
-----10⁵ matrix -----
rel_max = 8.363932312013947e-10

-----10⁶ matrix -----
rel_max = 7.545573684892511e-11
-----10⁷ matrix -----
rel_max = 8.125214568343274e-10
----Relativ Error-----

