

Today, we will:

- Do another example problem – continuity equation
- Discuss the stream function and its physical significance, and do some examples

I used EES to plot 3 streamlines, $\psi = 3, 2,$ and 1 :

$\psi = x^2y + x + C$
 $C=0$
 $\psi=1$

Run	ψ	X
Run 1	1	1
Run 2	1	1.211
Run 3	1	1.421
Run 4	1	1.632
Run 5	1	1.842
Run 6	1	2.053
Run 7	1	2.263
Run 8	1	2.474
Run 9	1	2.684
Run 10	1	2.895
Run 11	1	3.105
Run 12	1	3.316
Run 13	1	3.526
Run 14	1	3.737
Run 15	1	3.947
Run 16	1	4.158

