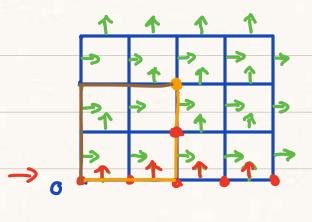


Today: Compute streamfunction

Computing Stream Punction



$$Nx = 4$$
 $Ny = 3$
 x

$$\int q_{\gamma}(x, 0) dx \approx$$

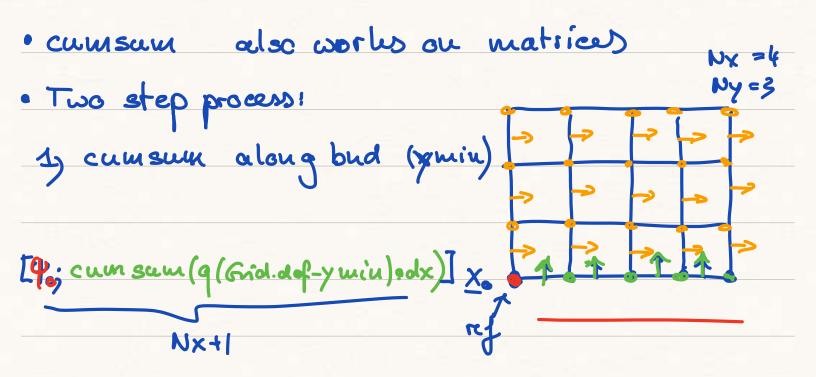
$$q(Grid.def-\gamma uiu) \times Gridselx$$



Given location of flux companents along faces the natural location for integral/streamfunction is the cell corners.

Hints ou implementation

· Simple Riemann sum to evaluate integral best done usind cumsum.m



2) Integrate upward into domain by applyind cameum to approprially reshapped matrix of gx velocities

