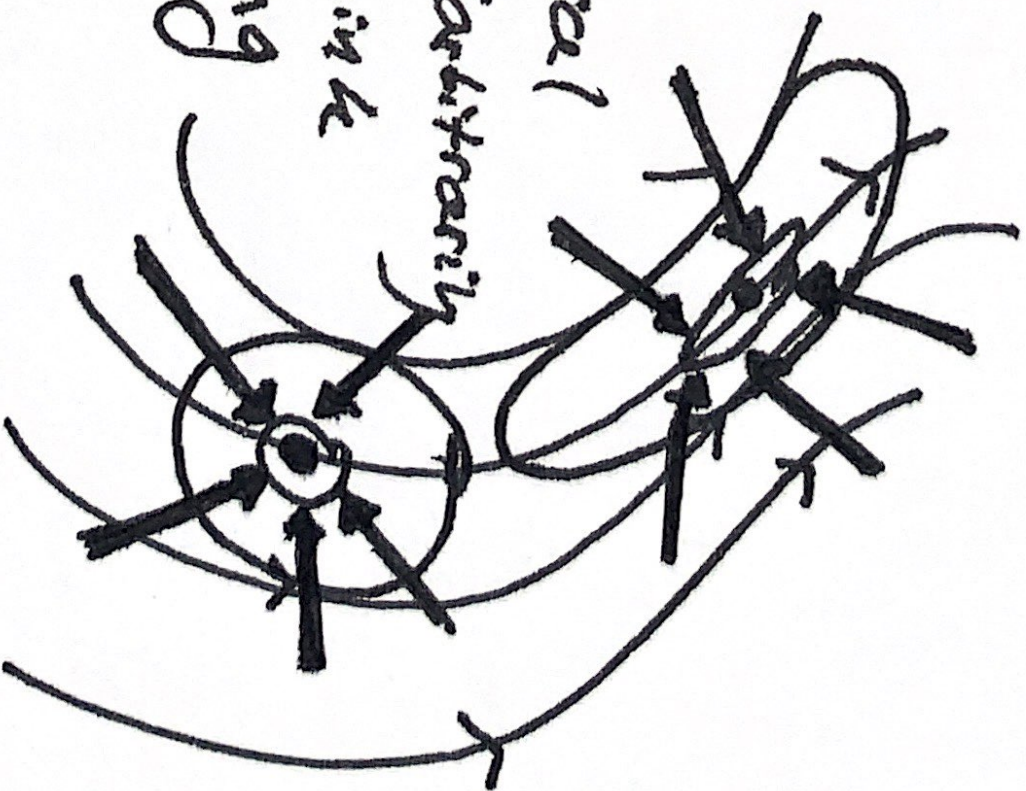
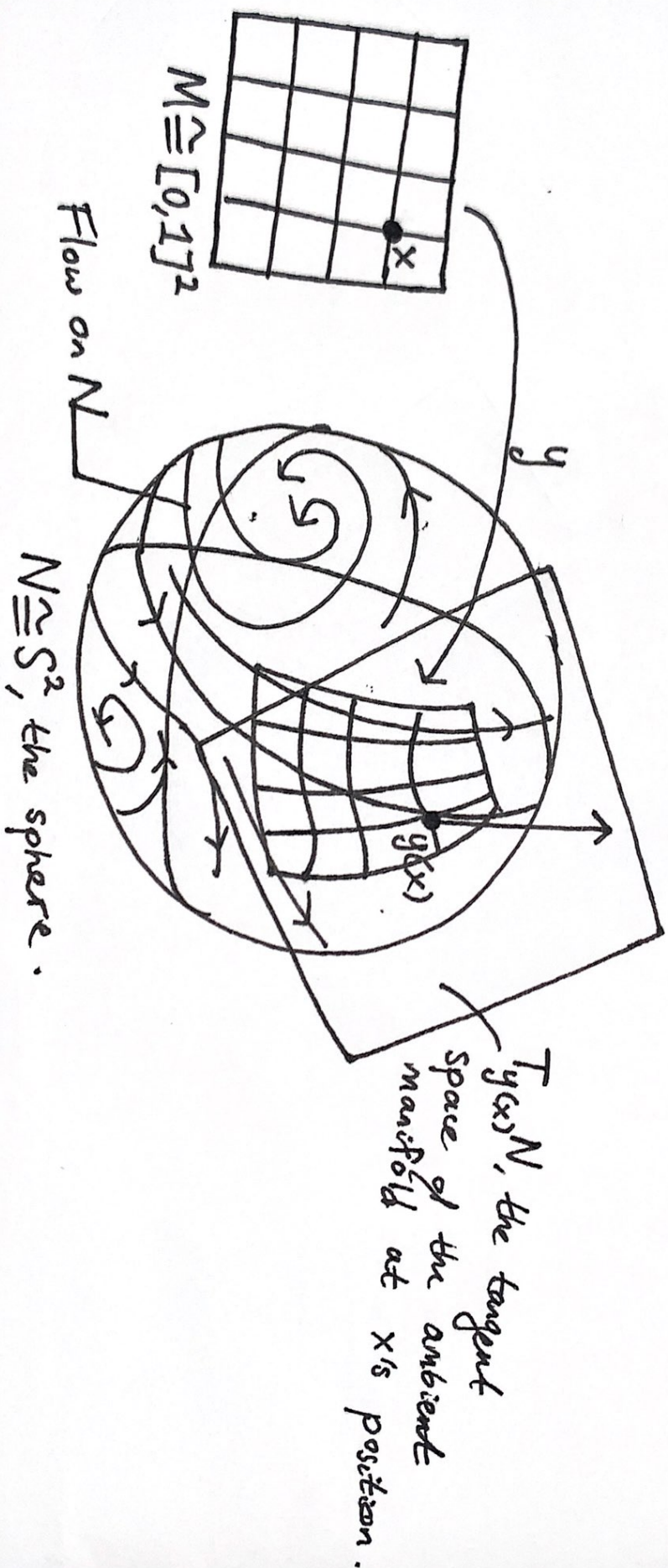
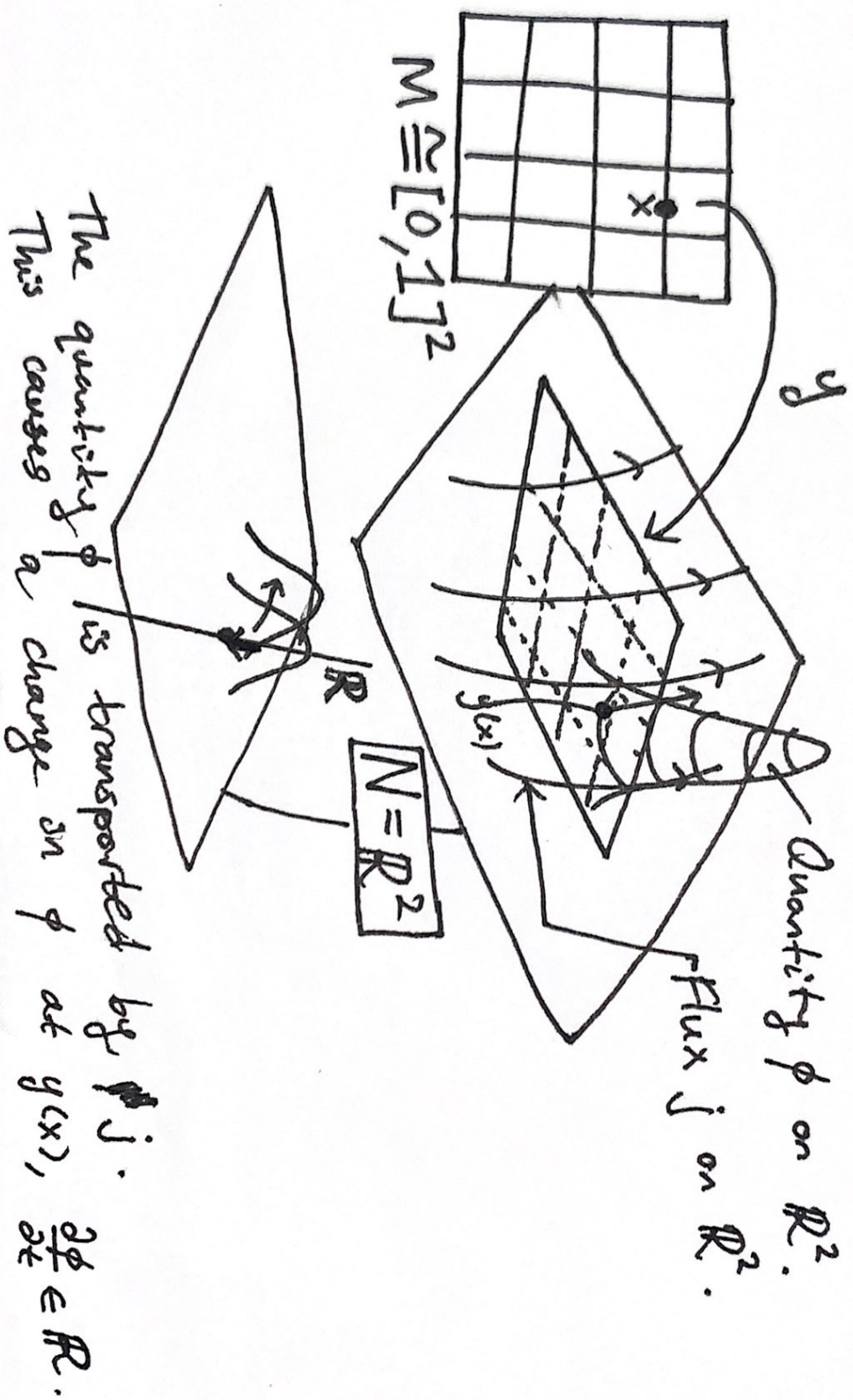
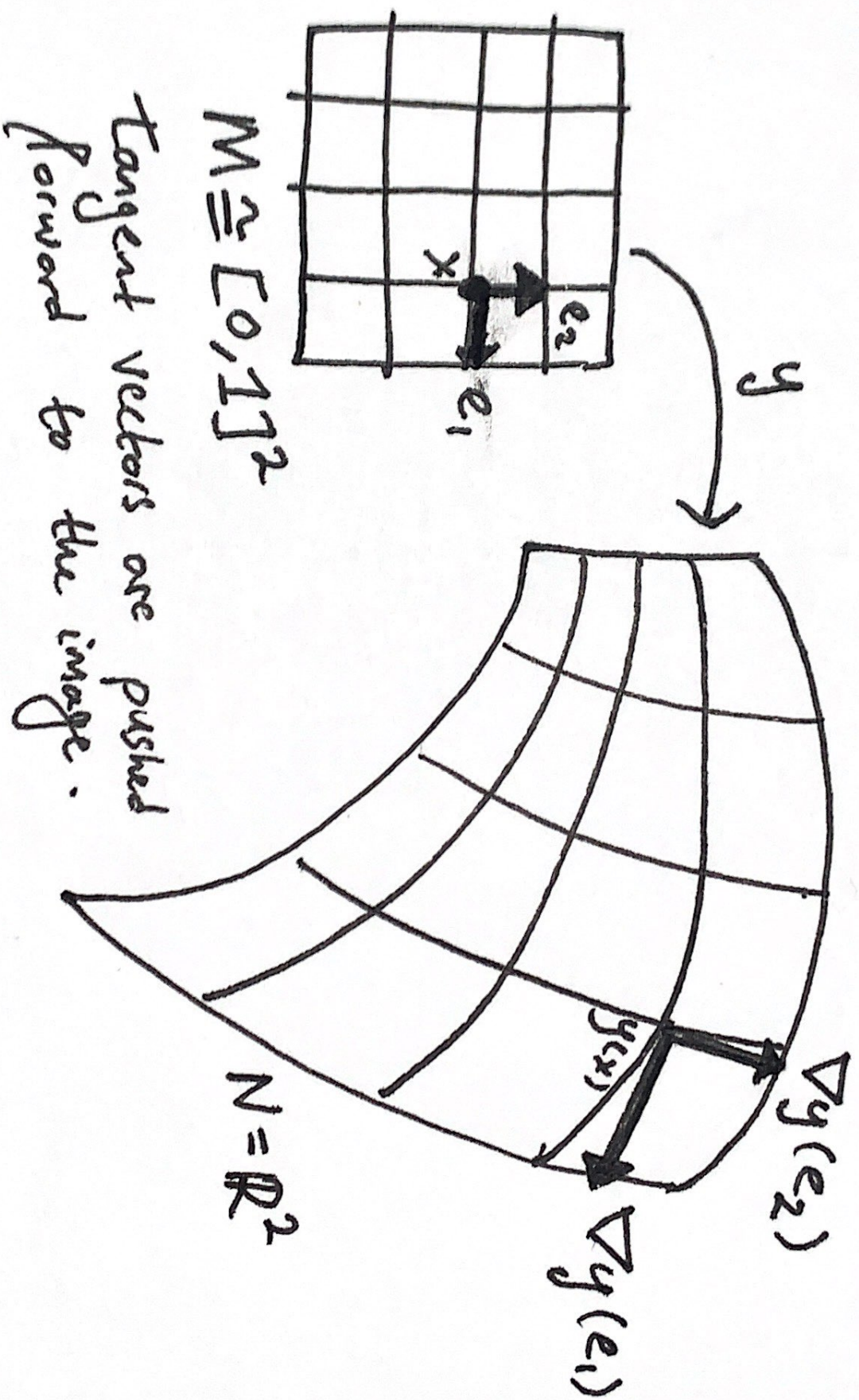


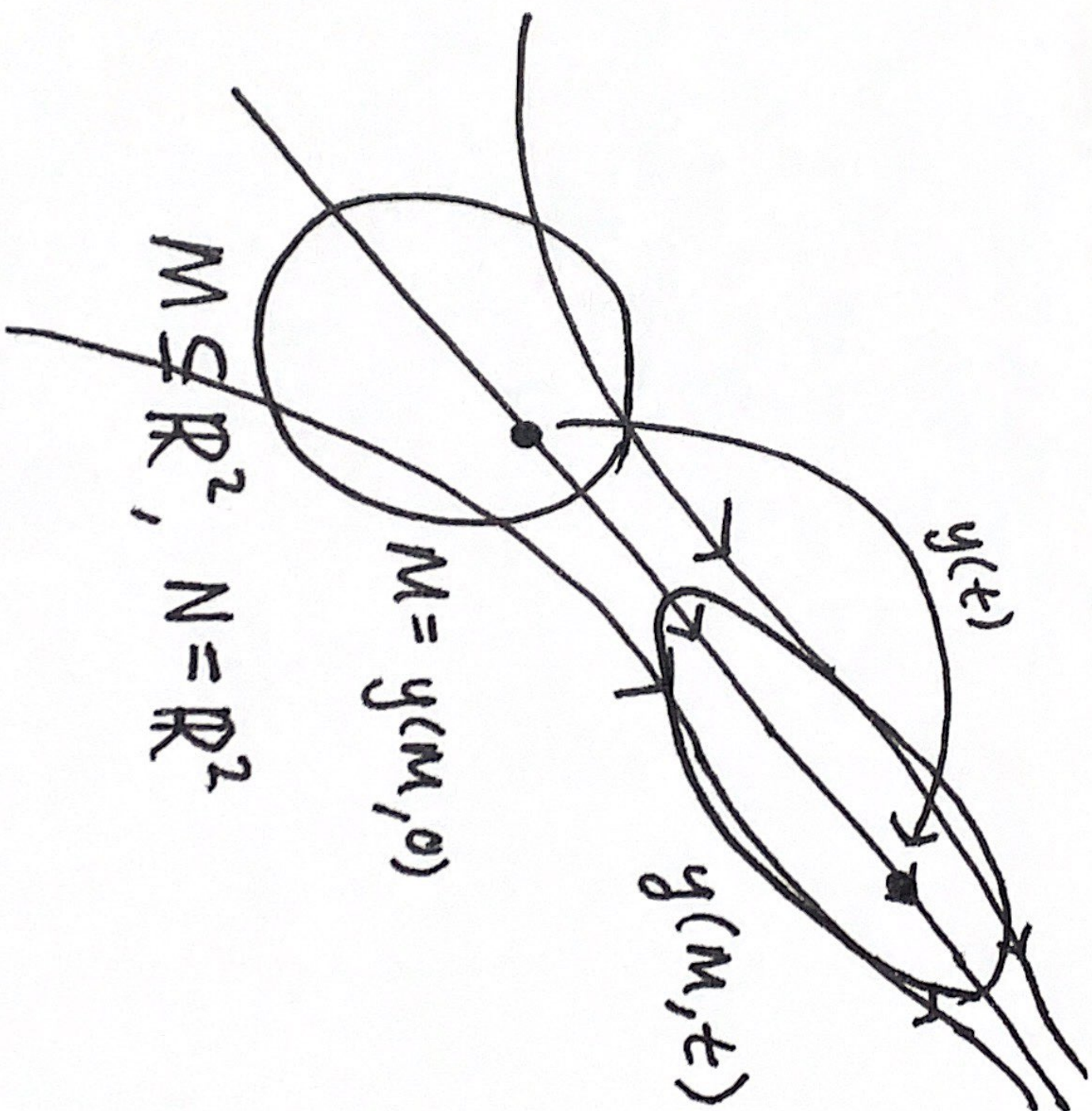
A material
element is "arbitrarily
small", so think
of the limiting
of this flow
behaviour.

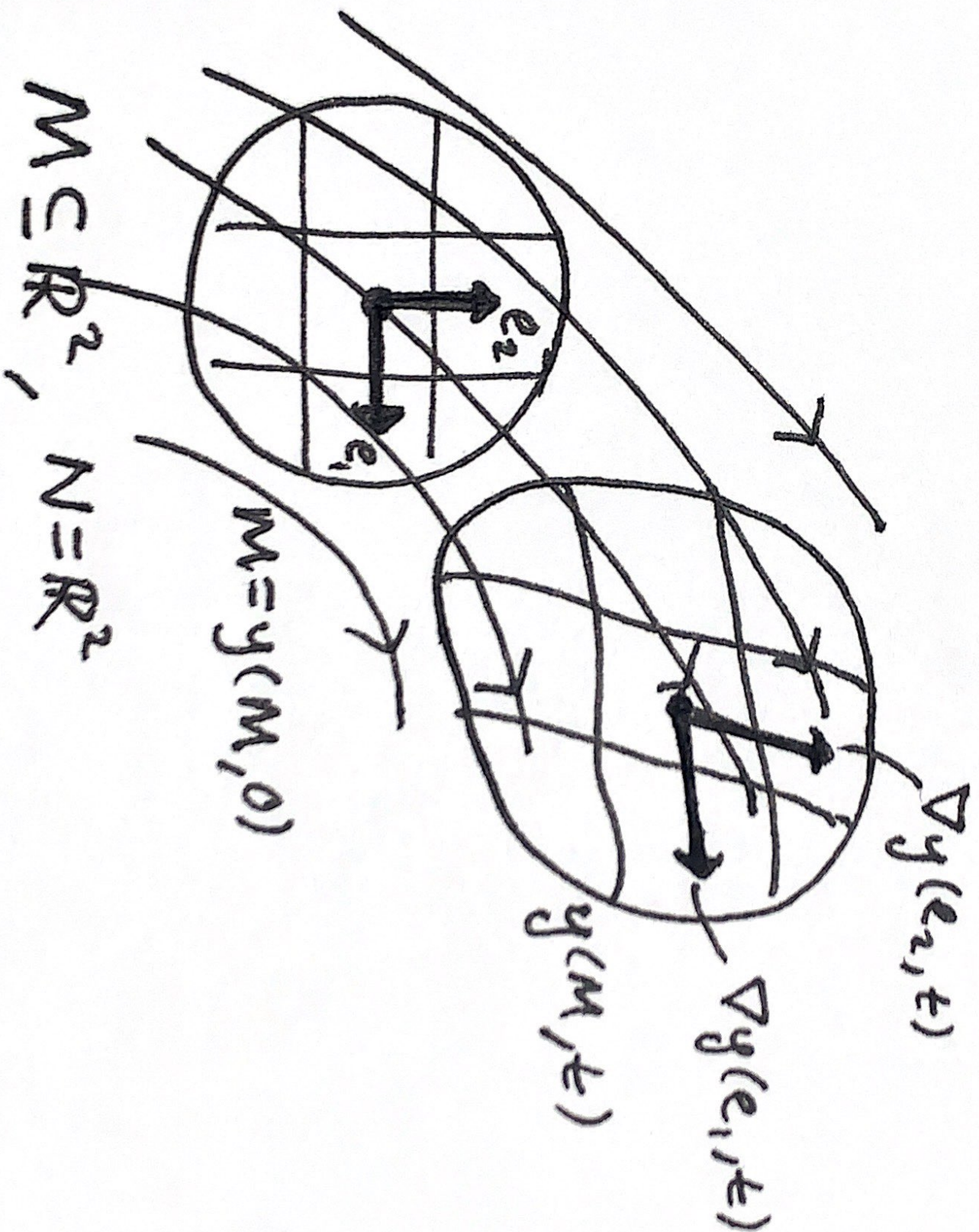


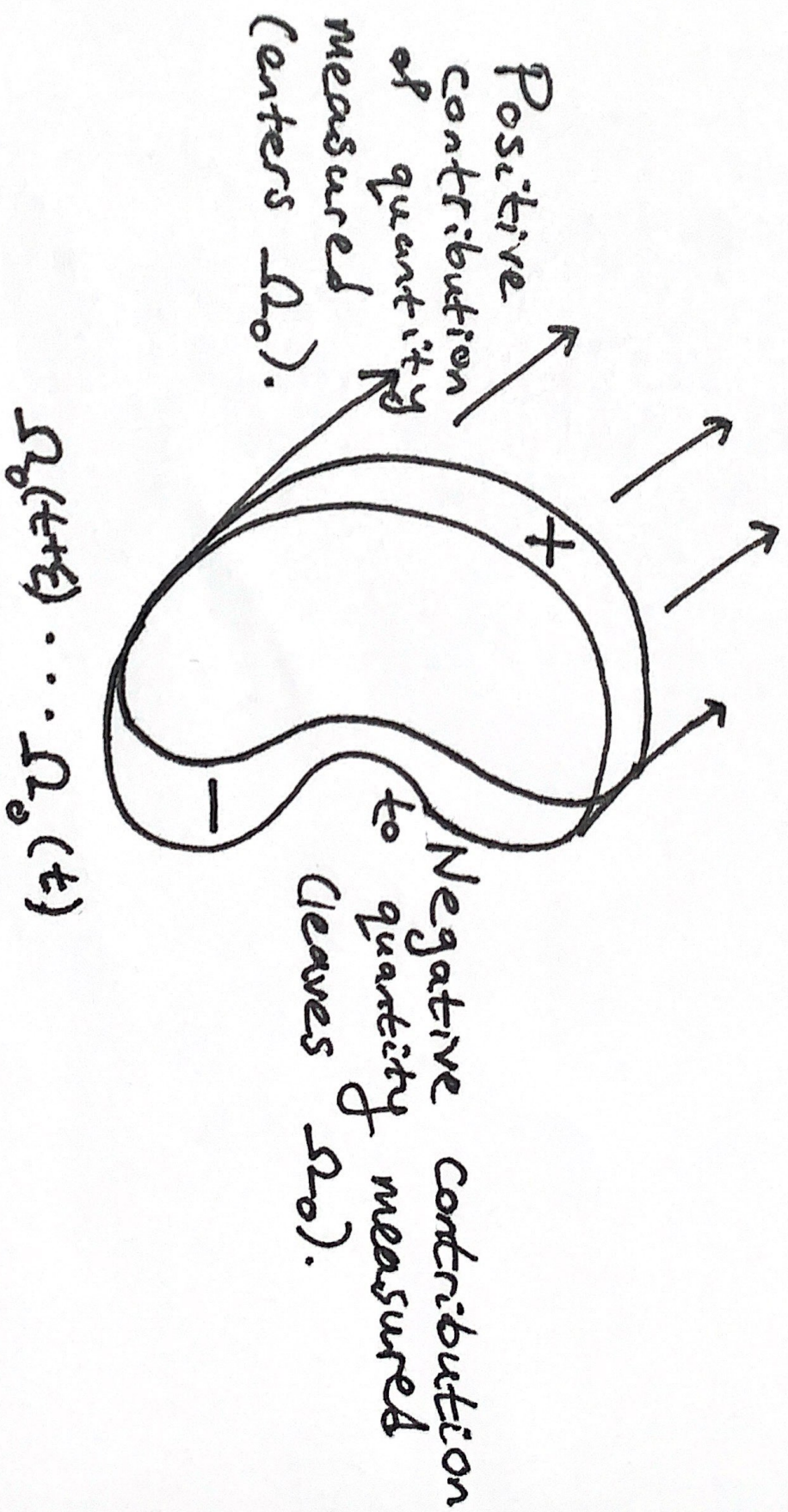




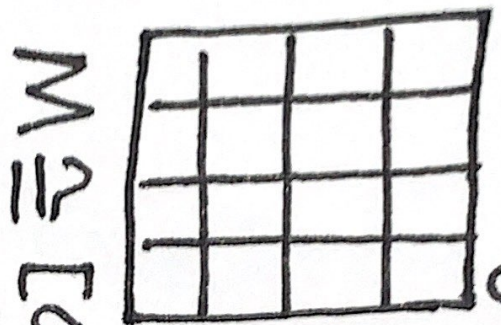




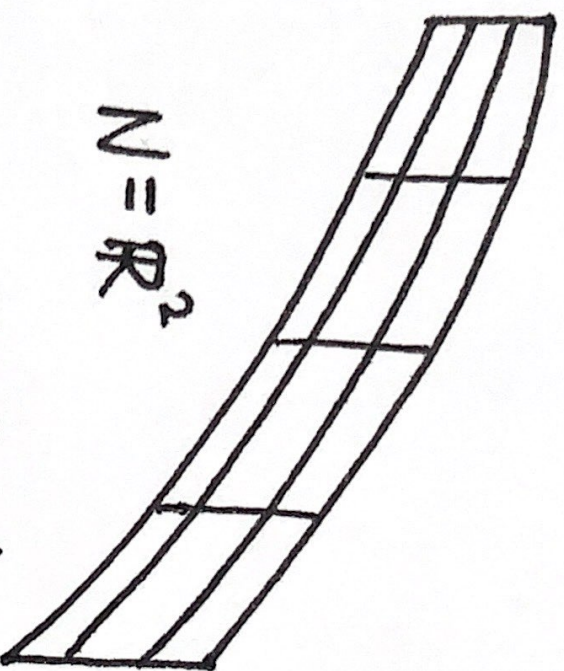
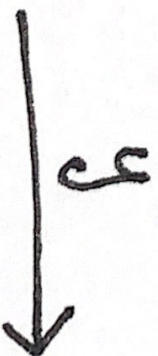




Configuration of a 2D beam.

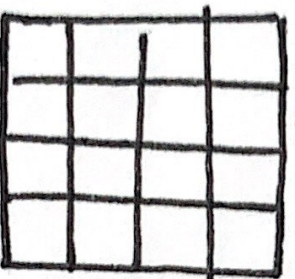


$$M \cong [0, 1]^2$$

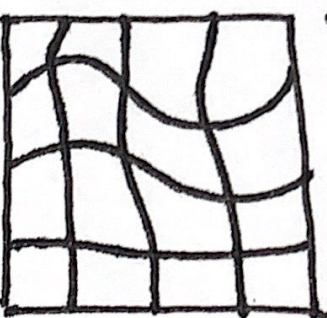


$$N = \mathbb{R}^2$$

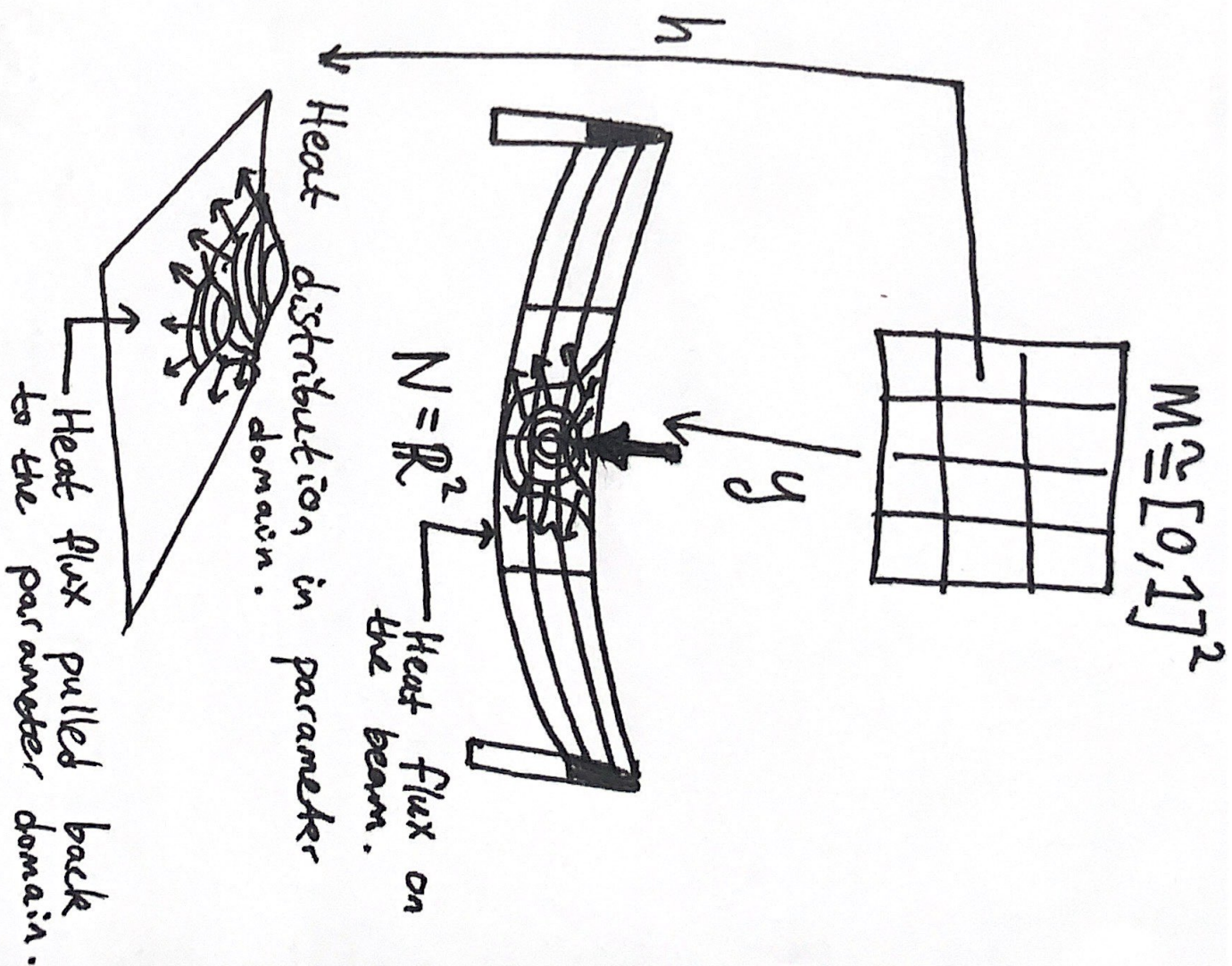
Configuration of a square of fluid.



$$M \cong [0, 1]^2$$



$$N \cong [0, 1]^2$$



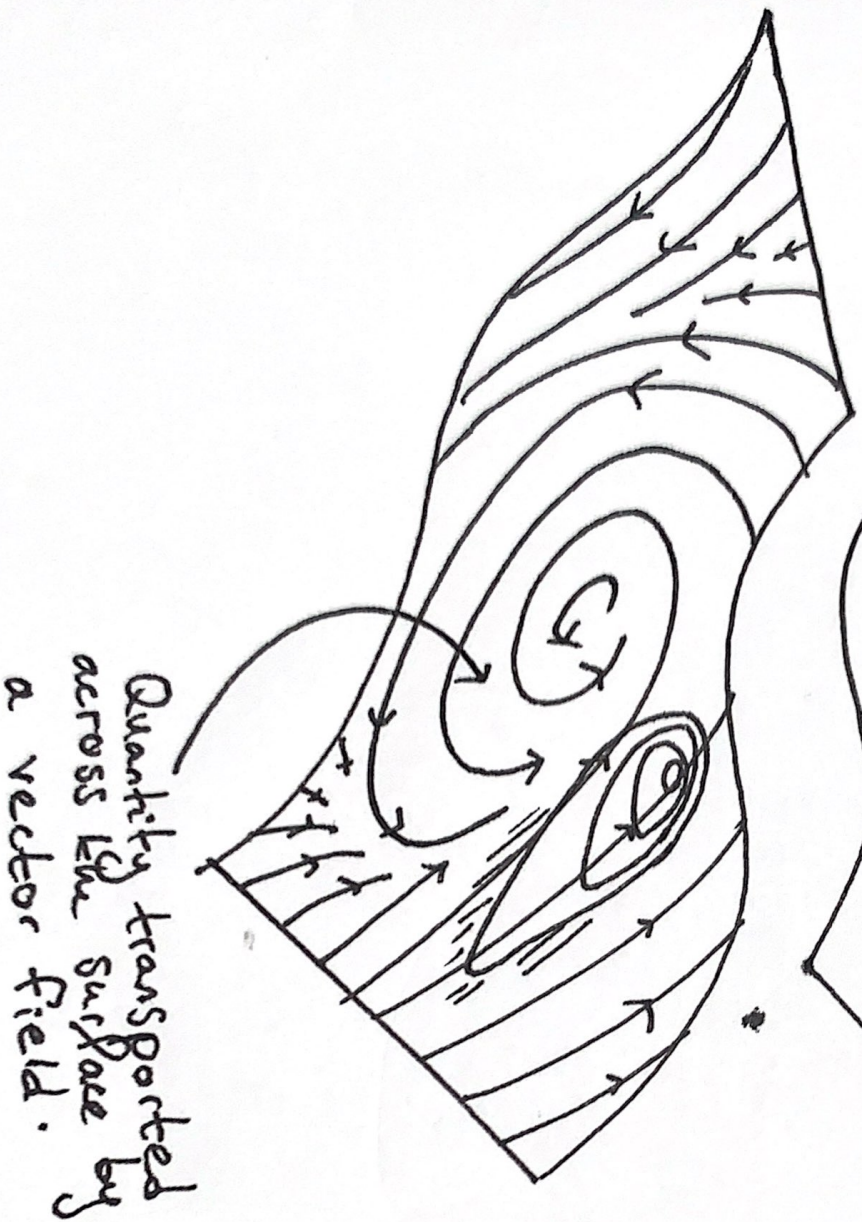
Some scalar quantity on the surface.



Quantity transported across the surface by a vector field.



Some scalar quantity on the surface.



Quantity transported across the surface by a vector field.