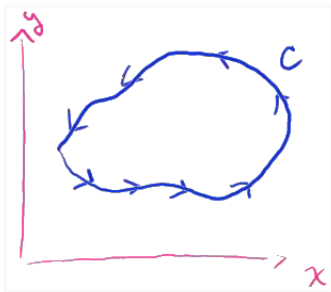


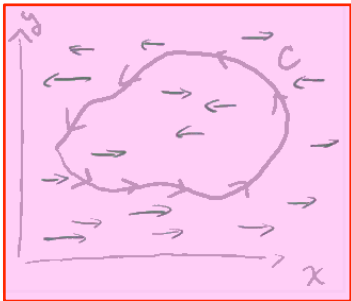
Let's say we have a path in the xy plane.



And let's say we also have a vector field. And our vector field is going to be a little unusual; I'll call it \vec{p} .

$$\vec{p}(x,y) = P(x,y) \hat{i}$$

There is no j component, so if you have to visualize this vector field, all of the vectors, they're all multiples of the i -unit vector.



That's what this vector field would look like.