## 0.1 Green's theorem

We have a curve C on a plane.

Inside this is region D.

We have two functions: L(x,y) and M(x,y) defined on the region and curve.

$$\oint_C (L dx + M dy) = \int \int_D (\frac{\delta M}{\delta x} - \frac{\delta L}{\delta y}) dx dy$$