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### 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.

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