# Partial Differentiation <br> <br> Functions of more than one variable 

 <br> <br> Functions of more than one variable}

## Question

Sketch the level curves of the function.

$$
f(x, y)=\frac{y}{x^{2}+y^{2}}
$$

Answer
This is a a family of circles that pass through the origin, with the circles centred on the $y$-axis. Although the origin is not on any of the level curves.


