## $\begin{array}{c} \textbf{Partial Differentiation} \\ \textbf{\textit{Functions of more than one variable} \end{array}$

## Question

Specify the domain of the function.

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

## Answer

The domain is the set of all points in the xy-plane, except for the origin.