$$f(xxy) = \begin{cases} xy/(x^2+y^2) & \text{if } xxy \neq 0 \times 0 \\ 0 & \text{xxy} \neq 0 \times 0 \end{cases}$$
a) show that f is continuous in each variable separatly

for let $y \in \mathbb{R}$ then $g(x) = \frac{xy_0}{x^2+y^2}$ as

$$\begin{cases} y \in \mathbb{R} \text{ then } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{ for } g(x) = \frac{xy_0}{x^2+y^2} \text{ as } \end{cases}$$

$$\begin{cases} y \in \mathbb{R} \text{$$

F:RXR->R by

and 0 + 4