



## Question

If the values of  $f(x, y)$  tend to 1 as  $(x, y) \rightarrow (0, 0)$  along the line  $y = x$ , but the values of  $f(x, y)$  tend to  $-1$  as  $(x, y) \rightarrow (0, 0)$  along the line  $y = -x$ , then

$$\lim_{(x,y) \rightarrow (0,0)} f(x, y) \text{ does not exist.}$$

- A. True, and I am confident.
- B. True, but I am not so confident.
- C. False, but I am not so confident.
- D. False, and I am confident.