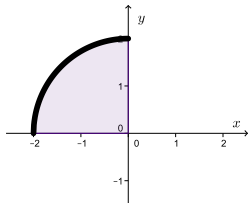


Maximum and Minimum Values



Question

Suppose you wanted to investigate the values of a function $f(x, y)$ along the arc of the quarter circle shown. Which of these substitutions would you plug into f ?



- A. $x = -\sqrt{4 - y^2}$ with $0 \leq y \leq 2$
- B. $y = \sqrt{4 - x^2}$ with $0 \leq x \leq 2$
- C. $x = \sqrt{4 - y^2}$ with $0 \leq y \leq 2$
- D. $y = -\sqrt{4 - x^2}$ with $-2 \leq x \leq 0$