

Maximum and Minimum Values



Question

Suppose f has a critical point at $(3, 2)$, $f_{xx}(3, 2) < 0$ and $D = f_{xx}(3, 2)f_{yy}(3, 2) - (f_{xy}(3, 2))^2 > 0$. What can you conclude?

- A. f has a local minimum at $(3, 2)$.
- B. f has a local maximum at $(3, 2)$.
- C. $f(3, 2)$ is not a local maximum nor a local minimum of f .
- D. There is not enough information to decide.