## Tangent Planes and Linear Approximation

## Question

Suppose $L(x, y)=-1+5(x-2)-7(y-3)$ is the linearization of $f(x, y)$ at $(2,3)$. The $y=3$ trace of the graph of $z=f(x, y)$ is a curve. What is the slope of the tangent line to that curve at the point $(2,3,-1)$ ?
A. -7
B. 5
C. -1
D. There is not enough information to decide.

