

Quick Hit 7.2 (2)

1. Consider $f(x, y) = yx^2 \ln(3x - 1)$. Compute $f_{yx}(1, 2)$
2. Consider $f(x, y) = xy^2 - 3x + 1$. Suppose that x and y are both functions of t . Namely, $x(t) = e^t + 2t$ and $y(t) = t^3$. What is $\frac{df}{dt}$ in terms of t ?