

5. (10 Puntos) Sean $f: \mathbb{R}^2 \rightarrow \mathbb{R}^3$ y $g: \mathbb{R}^3 \rightarrow \mathbb{R}$ tales que $f(x, y) = (e^{x+y}, x-y, x^2)$,
 $g(x, y, z) = x + yz + x^2y^2$. Determine $D(g \circ f)(1, -1)$.