

Chain Rule Problems

1. Let $z = e^{x^2y} + \tan(y)$ and $x = t^3$, $y = t \cos(t)$. Find $\frac{dz}{dt}$.

2. Let $y = 5u^3v^2 - ue^v$ and $u = e^{s^3} \log(t)$, $v = \frac{t}{\sqrt{s^2 + 1}}$. Find $\frac{\partial y}{\partial s}$ and $\frac{\partial y}{\partial t}$.