MAT257 PSET 4—Question 2

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October 15, 2021

Let $g(y) := f(1, y)$. Note that $1^{1^{1^{1^y}}} = 1$ and $\log(1) = 0$. Thus, $g(y) = 1 + 0 \cdot \text{other stuff} = 1$. Thus, $D_2 f(1, y) = g'(y) = 0$.