

Please PRINT your name _____

No calculators, cell phones, computers, notes, etc.

Circle your answer. Make your work correct, complete, and coherent.

The quiz is worth 5 points. The solutions will be posted on my website later today.

Quiz 4, March 19, 2019

Let $f(x, y) = x\sqrt{x\cos y + 3x^2}$. Find $\frac{\partial f}{\partial x}$.

ANSWER:

$$\frac{\partial f}{\partial x} = x \frac{\cos y + 6x}{2\sqrt{x\cos y + 3x^2}} + \sqrt{x\cos y + 3x^2}$$