

"QUIZ" for Lecture 9

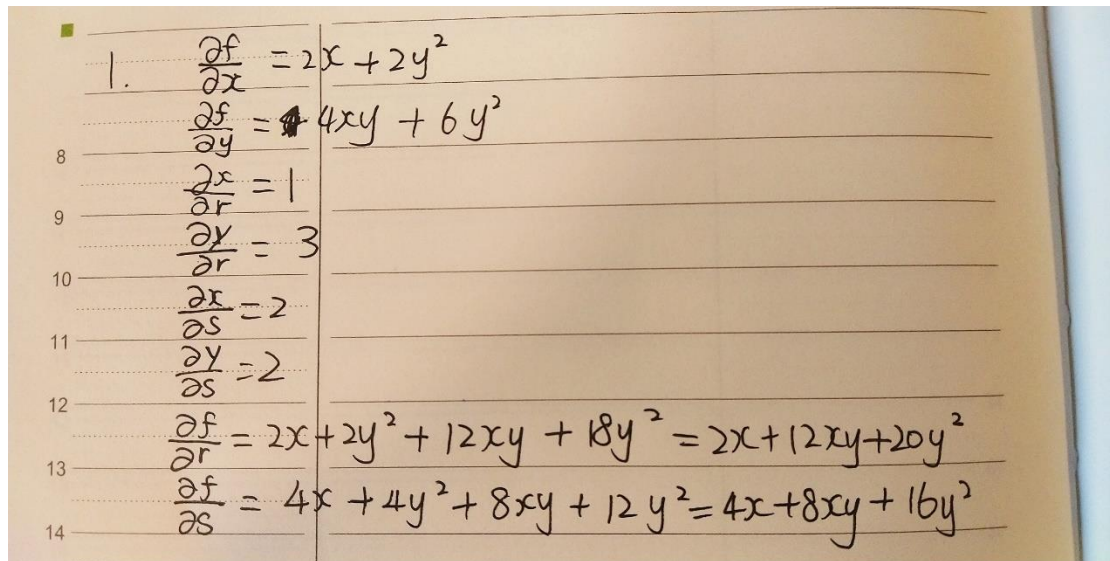
NAME: (print!) Yongshan Li Section:23

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q9FirstLast.pdf) ASAP BUT NO LATER THAN Oct. 5, 8:00pm

1. Find $\partial f/\partial r$ and $\partial f/\partial s$ as functions of r and s , if

$$f(x, y) = x^2 + 2xy + 2y^3,$$

and the variables are related by $x = r + 2s$ and $y = 3r + 2s$. You do not need to simplify!



2. Find $\partial z/\partial x$ and $\partial z/\partial y$ if

$$x^2 + y^2 + z^2 = 5xyz + 1$$

