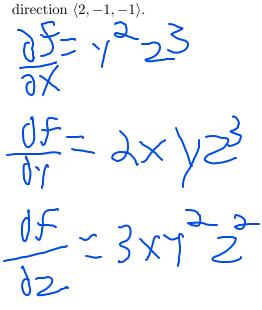
## "QUIZ" for Lecture 8

NAME: (print!) mathlew terms Section: \_\_\_\_

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: qXFirstLast.pdf) ASAP BUT NO LATER THAN Oct. 1, 2020, 8:00pm

1. Find the directional derivative of the function  $f(x,y,z) = xy^2z^3$  at the point (2,1,1) in the direction (2,1,1)



 $\frac{1}{1} = \frac{1}{1} = \frac{1}$ 

2. Find the maximum rate of change of  $f(x,y) = x^2 + y^3$  at the point (2,1) and the direction in which is occurs.

in lirection