"QUIZ" for Lecture 7

NAME: (print!) Orion Kress Sanfilippo Section: 22

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q7FirstLast.pdf) ASAP BUT NO LATER THAN Sept. 28, 8:00pm

1. Compute the partial derivatives with respect to x and y.

$$z = \ln(x^2 + y^3) .$$

$$\frac{\partial_z}{\partial_x} = \frac{1}{\chi^2 + y^3} (2x) \qquad \frac{\partial_z}{\partial_y} = \frac{3y^2}{(\chi^2 + y^3)}$$

2. Find an equation of the tangent plane to the given surface at the specified point.

$$z = x^{2} + y^{2} + 2 , \quad (1, 1, 4) .$$

$$x = x^{2} + y^{2} + 2 , \quad (1, 1, 4) .$$

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