

Name: \_\_\_\_\_

Math 233: Multivariate Calculus (Sect 13)

Instructor: Jennifer Li

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## Quiz 7

Please write neatly and show all of your work.

1. Find an equation of the tangent plane to the surface  $z = \frac{x}{y^2}$  at the point  $(-4, 2, -1)$ .

2. Use the Chain Rule to find  $\partial z/\partial s$  and  $\partial z/\partial t$ , where  $z = \ln(3x + 2y)$  and  $x = s \sin(t)$  and  $y = t \cos(s)$ .