10 minutes
5 points for each question
No calculators allowed

Math 285.002
Quiz 4
October 6, 2000

Name

Do all of your work directly on this sheet, using the back for scratch if necessary. Circle your answers.

1. (4 points) Identify the quadric surface with equation $y = 4x^2 - z^2$. (Notice that all that is required here is the name of the surface, not a sketch.)

2. (6 points) Find the equation of the plane that passes through the point $(4, 5, -6)$ and contains the line $x = 3 + 2t$, $y = 5 + 3t$, $z = -4$. Give your answer as a linear equation, i.e., an equation of the form $ax + by + cz + d = 0$.