

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS & STATISTICS

MATH 201-11

Quiz # 3

Apr 04, 2015

NAME:	ID#:
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SHOW ALL YOUR WORK

1. **(3points)** Find the distance from the point $(-1,4,3)$ to the line $x = 10 + 4t$, $y = -3$, $z = 4t$.

2. **(3points)** Identify the surface $x^2 - 2y^2 + 4z^2 - 2x + 8y = 11$.

3. **(4points)** Sketch the domain of the function $f(x, y) = \sqrt{y - 2x - 1} - x$. Also, sketch the level curve $f(x, y) = 0$. Your sketches should show enough details.