Math 241, Sections BL1 and BL2

Quiz # 1

September 11, 2012

Solve both exercises. Show work to get credit.

1) [5=4+1pts.] Find the area of the parallelogram with vertices $K(1,2,2)$, $L(1,4,4)$, $M(3,8,4)$, and $N(3,6,2)$. Why is this a parallelogram?

2) [5pts.] Find an equation of the plane that passes through the point $(-2,3,2)$ and contains the line of intersection of the planes $x + y - z = 3$ and $4x - y + 5z = 4$.