1. Sketch the surface $9x^2 + 4z^2 = 36$.

2. For $g(x, y, z) = e^x \sqrt{y + 2z}$, find value of $g_z(x, y, z)$ at $(0, 1, 2)$. 
1. Find equation of the plane that is parallel to $yz$-plane and passes through the point $(9, 4, -2)$.

2. For $f(x, y, z) = \sin(3x + yz)$, find $f_{xx} \left(0, \frac{\pi}{2}, 1\right)$. 
1. Find traces of the surface

\[ 3x + y + 2z = 6 \]

in coordinate planes and sketch this surface.

2. If \( z = xe^{x-y} + ye^{y-x} \), then find \( \frac{\partial z}{\partial x} + \frac{\partial z}{\partial y} \).