Consider points \( A, B, C \) with coordinates \((-3, 3, -3), (1, 1, 1)\) and \((3, 3, 2)\) respectively.

a) (5 points) Find an equation of the plane \( \alpha \) passing through these points.

b) (5 points) Does the line \( L \) defined by a parametric equation
\[
\begin{align*}
x &= 1 + 4t \\
y &= 2 + 4t \\
z &= 3 + 2t
\end{align*}
\]
intersect \( \alpha \)? If it does, what are the coordinates of the point of intersection?