MATH 261 Quiz 2 Name: .
Student number:

Show all work. 5 points each.

1. Find the equation of the plane through the points $(0, 0, 0)$, $(8, 2, 4)$ and $(-1, -2, -3)$.

2. Find the equation of the tangent line to the curve with parametric equations $x = t$, $y = e^{-t}$, $z = 2t - t^2$ at the point $(0, 1, 0)$. Hint: this point corresponds to $t = 0$