## Math 241: Quiz 4

## Show ALL Work

Name $\qquad$

1. The plane $\mathcal{P}$ given by $7 x-4 y+4 z=-3$ and the line $\ell$ given by $x=t+3, y=2 t+10$ and $z=-t-1$ intersect at a point $A$. Calculate the point $A$.

2. Let $\mathcal{P}$ and $A$ be as in the previous problem. Calculate a point $B$ which is a distance 18 from $A$ and a distance 18 from plane $\mathcal{P}$. (Note: There are two correct answers. You only need to give one. Also, if you are using line $\ell$, you are likely doing something wrong.)

