Math 226/229 – Quiz

Name _____

- **Write as neatly as you can!**
- **No calculators are allowed.**
- **You must show your work to obtain full credit.**

1. (*5 points*) Find a parametric equation of the line through the point $(1, 2, -1)$ and perpendicular to both $\mathbf{i} + \mathbf{j}$ and $\mathbf{j} - 2\mathbf{k}$.

2. (*5 points*) Find the equation of the plane through the point $(2, 2, 9)$ and perpendicular to the line $x = 2t$, $y = 1 + 2t$, and $z = 4 - t$.