

Calc 3, Fall 2012
Quiz 1

Name: _____

1. (*2 points*) Find a vector perpendicular to both $\vec{a} = (4, -1, 0)$ and $\vec{b} = (2, 1, 3)$.

2. (*4 points*) Let $P_1 = (1, 2, -1)$ and $P_2 = (-1, 0, 3)$. Find any (parametric) equation for the line which contains both points.

3. (4 points) The equation for the set of all points which are the same distance from the two points $(3, 2, 3)$ and $(-1, 2, 1)$ is the equation for a plane. What is this equation?