Name:
Section:

Quiz 1

1. Determine which of the following pairs of vectors are orthogonal:
a) $< 1, 0, 1 >, < 0, 1, 1 >$
b) $< \frac{\sqrt{2}}{2}, 1, \frac{\sqrt{2}}{2} >, < \frac{\sqrt{2}}{2}, -1, \frac{\sqrt{2}}{2} >$
c) $< -1, \frac{1}{2}, 2 >, < \frac{1}{2}, -2, 1 >$

2. Find a vector orthogonal to both $< 1, 1, 2 >$ and $< 0, 1, -1 >$.

3. Find a vector normal to the plane defined by the equation $2x + z = 1$.