

Math 2263, Quiz 1

You must show all work for full credit, you have 15 min to finish it.

1.(5 pt) Find the angle between \mathbf{a} and \mathbf{b} where $\mathbf{a} = (1, 2, 2)$, $\mathbf{b} = (1, 1, 0)$.

2.(5 pt) Find a non-zero vector orthogonal to the plane through the points $P(1, 0, -1)$, $Q(1, 1, -2)$, $R(1, -1, 0)$, and find the area of triangle PQR.

3.(5 pt) Find an equation of the plane through the points $(0, 0, 0)$, $(1, 3, 0)$, $(2, 6, 1)$.