MATH 202 Name: _____

Quiz 2 January 27, 2020

Instructions: Five points total.

1. (2 pts.) Find, in both degrees and radians, the angle θ between the vectors

$$\mathbf{v} = \langle 2, 2 \rangle \quad \text{and} \quad \mathbf{w} = \langle -1 - \sqrt{3},\ \sqrt{3} - 1 \rangle.$$

2. (3 pts.) Justify that the two planes

$$\begin{aligned} \text{Plane 1:} \quad & y + 2z = 1 \\ \text{Plane 2:} \quad & x + 3y - z = 3 \end{aligned}$$

are **NOT** parallel. Then find the equation of the line ℓ of intersection. (You can give your answer in either vector or parametric form.)