Dawson College: Linear Algebra (SCIENCE): 201-NYC-05-S8: Winter 2024: Quiz 10

name: _

Books, watches, notes or cell phones are **not** allowed. The **only** calculators allowed are the Sharp EL-531**. You **must** show all your work, the correct answer is worth 1 mark the remaining marks are given for the work.

Question 1. (5 marks) Given the planes $\mathscr{P}_1: x + 3y - z = 5$ and $\mathscr{P}_2: 2x - 5y + z = 7$. Determine the equation of the line of intersection and find the angle between the given planes.

Question 2. (5 marks) Find the equation of the plane \mathscr{P} which is equidistant from $\mathscr{P}_1: x + 2y + 3z = 0$ and $\mathscr{P}_2: x + 2y + 3z = 6$.