

# MATH1141 ASSIGNMENT

## Intersection of Planes

### Question 1

In this question you will find the intersection of two given planes using two different methods. You are given two planes in parametric form,

$$\begin{aligned}\Pi_1 : \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} &= \begin{pmatrix} 0 \\ 3 \\ 3 \end{pmatrix} + \lambda_1 \begin{pmatrix} 2 \\ 1 \\ 2 \end{pmatrix} + \lambda_2 \begin{pmatrix} 4 \\ -1 \\ 1 \end{pmatrix} \\ \Pi_2 : \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} &= \begin{pmatrix} 0 \\ 1 \\ 3 \end{pmatrix} + \mu_1 \begin{pmatrix} 2 \\ -1 \\ 2 \end{pmatrix} + \mu_2 \begin{pmatrix} 4 \\ -3 \\ 1 \end{pmatrix}\end{aligned}$$

where  $x_1, x_2, x_3, \lambda_1, \lambda_2, \mu_1, \mu_2 \in \mathbb{R}$ . Let  $L$  be the intersection of  $\Pi_1$  and  $\Pi_2$ .

(a) Find vectors  $n_1$  and  $n_2$  that are normals to  $\Pi_1$  and  $\Pi_2$  respectively and explain how you can tell without performing any extra calculations that  $\Pi_1$  and  $\Pi_2$  must intersect in a line.

The normal of a plane can be calculated by finding the cross product of the non-parallel vectors of a plane. Using this we can find  $n_1$ :

$$\begin{aligned}n_1 &= \begin{pmatrix} 2 \\ 1 \\ 2 \end{pmatrix} \times \begin{pmatrix} 4 \\ -1 \\ 1 \end{pmatrix} \\ &= \begin{pmatrix} 1(1) - 2(-1) \\ 2(4) - 2(1) \\ 2(-1) - 1(4) \end{pmatrix} \\ &= \begin{pmatrix} 3 \\ 6 \\ -6 \end{pmatrix}.\end{aligned}$$

Similarly, we can find  $n_2$ :

$$n_2 = \begin{pmatrix} 2 \\ -1 \\ 2 \end{pmatrix} \times \begin{pmatrix} 4 \\ -3 \\ 1 \end{pmatrix}$$

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