

Question 1

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

$$\Pi_1 : \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = \begin{pmatrix} 4 \\ 0 \\ 4 \end{pmatrix} + s_1 \begin{pmatrix} 3 \\ -1 \\ 2 \end{pmatrix} + s_2 \begin{pmatrix} 4 \\ -3 \\ 3 \end{pmatrix}$$

$$\Pi_2 : \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = \begin{pmatrix} 4 \\ 0 \\ 1 \end{pmatrix} + r_1 \begin{pmatrix} 3 \\ -1 \\ -1 \end{pmatrix} + r_2 \begin{pmatrix} 4 \\ -3 \\ 0 \end{pmatrix}$$

where $s_1, s_2, r_1, r_2, s_3, r_3 \in \mathbb{R}$. Let L be the line of intersection of Π_1 and Π_2 .

- Find vectors n_1 and n_2 that are normals to Π_1 and Π_2 respectively and explain how you can tell without performing any other calculations that Π_1 and Π_2 must intersect in a line.
- Find Cartesian equations for Π_1 and Π_2 .
- For your first method, assign one of s_1, s_2 or r_1 to be the parameter u and then use your two Cartesian equations for Π_1 and Π_2 to express the other two variables in terms of u and hence write down a parametric vector form of the line of intersection L .
- For your second method, substitute expressions for s_1, s_2 and r_1 from the parametric form of Π_2 into your Cartesian equation for Π_1 and hence find a parametric vector form of the line of intersection L .
- If your parametric forms in parts (c) and (d) are different, check that they represent the same line. If your parametric forms in parts (c) and (d) are the same, explain how they could have been different while still describing the same line.
- Find $u = r_2 > r_1$ and show that u is parallel to the line you found in parts (c) and (d).
- Give a geometric explanation of the result in part (f).

$$a) \quad n_1 = \begin{pmatrix} 3 \\ -1 \\ 2 \end{pmatrix} \times \begin{pmatrix} 4 \\ -3 \\ 3 \end{pmatrix} = \begin{pmatrix} 3 \\ 2 \\ -2 \end{pmatrix} \quad \text{and} \quad n_2 = \begin{pmatrix} 3 \\ -1 \\ -1 \end{pmatrix} \times \begin{pmatrix} 4 \\ -3 \\ 0 \end{pmatrix} = \begin{pmatrix} 3 \\ 4 \\ 2 \end{pmatrix}$$

Since $n_1 \neq \lambda n_2$, Π_1 and Π_2 are different planes, i.e. they aren't parallel, thus they must intersect in a line.

- b) Substitute the values from the normal vectors into the cartesian equation: $a x_1 + b x_2 + c x_3 + d = 0$, where

$$n = \begin{pmatrix} a \\ b \\ c \end{pmatrix} \quad \text{and then solve for the translation } d. \text{ This can be done as the dot product of the line parallel to the}$$

plane and its normal will equal zero as they are perpendicular:

$$\Pi_1: 3x_1 + 2x_2 - 2x_3 + d = 0$$

→ substitute point $(4, 0, 4)$

$$3(4) + 2(0) - 2(4) + d = 0$$

$$d = -4$$

$$\Pi_1: 3x_1 + 2x_2 - 2x_3 - 4 = 0$$

$$\Pi_2: 3x_1 + 4x_2 + 2x_3 + d = 0$$

→ substitute point $(4, 0, 1)$

$$3(4) + 4(0) + 2(1) + d = 0$$

$$d = -14$$

$$\Pi_2: 3x_1 + 4x_2 + 2x_3 - 14 = 0$$

Neap Mathematics Trial Papers

Sasha Hu



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