

MATH 237: Vector Calculus

E. Θ Brown

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1. Find an equation for the plane containing the points $(3, 2, 4)$, $(4, 3, 7)$ and $(2, -1, 0)$.
2. Find an equation for the plane passing through the point $(7, -4, 2)$ with normal vector $(8, -3, 7)$.
3. Does the point $(5, 0, 6)$ lie in the second plane? Why or why not? What about the first plane?
4. If the planes from (1) and (2) are parallel, find the distance between them; otherwise, give an equation for their line of intersection.