

Last Name: _____

First Name: _____

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Quiz 10 (B)

Question 1. (4 marks) Do the planes $3x + 5y + 9z - 12 = 0$ and $2x - 3y + 8z - 2 = 0$ intersect? If so find the intersection.

Question 2. (2 marks) Find the equations of the line that passes through the point $P(2, 0, -12)$ and is parallel to both planes in question 1.

Question 3. (4 marks) Find the equation of the plane containing the lines $(x, y, z) = (1 + 5t, 2 - t, -2 - 4t)$ and $(x, y, z) = (5t, -1 - t, 7 - 4t)$