1. Determine if the lines are parallel, skew, or intersecting. If the lines intersect, find the point of intersection.

$$L_1: x = 1 - t, \ y = 2t, \ z = 3 + 2t$$

$$L_2: x = 3 + s, \ y = -4 - s, \ z = -1 + 3s$$

2.	Find an equation for the plane containing the lines from problem 1.
3.	Determine the distance from the line $-2x = y = z$ to the plane you found in problem 2.
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