Provide a clear and organized presentation. Show all of your work and completely simplify your answer. Do the lines I_1 and I_2 intersect if I_1 is the line of intersection between the planes whose equations are x + y + z = 1 and -3x + y + z = 1 and I_2 is the line of intersection between the planes whose equations are -5x - 2y + z = -2 and x - y - z = 6