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 $-3 x+y+z=1$ and $I_{2}$ is the line of intersection between the planes whose equations are $-5 x-2 y+z=-2$ and $x-y-z=6$

