Question #15350 Is this linear trandformation? $L([x,y,z]) = [0,0,0]$
Solution.. One need to verify, whether $L(\alpha_1[x_1,y_1,z_1] + \alpha_2[x_2,y_2,z_2]]) = \alpha_1 L([x_1,y_1,z_1]) + \alpha_2 L([x_2,y_2,z_2])$for any α_1, α_2 and $[x_i,y_i,z_i], i = 1,2$. But this obviously holds, due to both sides equal zero.