Let 5 be the graph of the equation Z = XY classify the linear rigid motions of \mathbb{R}^3 that induce isomethies of S.

rue have that $\sigma(u_1v) = (u_1v_1 uu)$ alfines the surface patch for the surface
created. we know that the surface is a
regular surface because * u_1v, uv are s mooth.
Now we want to "classify" the linear
rigid motions that induce isomethis.

From the first problemene already showed that if I is a rigid motion then I(s) is an isometry for a regular surface S.

The linear rigid motions are to up ACO(3) Since Teg translations orent linear.

The question also mentions is parentheses that map it wants only the Bometines that map 5 to itself.