4. The line *l* has equation

The plane Π has equation

without intersecting it.

 $\frac{x+2}{1} = \frac{y-5}{-1} = \frac{z-4}{-3}$

r.(i-2j+k) = -7

(5)

Determine whether the line l intersects Π at a single point, or lies in Π , or is parallel to Π