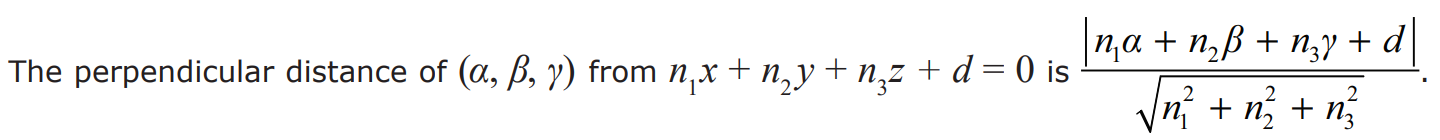
**9F Part 2 Perpendicular Distances with Lines & Planes**



1. Find the perpendicular distance from the point with coordinates to the plane with equation
2. The plane has equation:

The point has coordinates:

1. Find the shortest distance between and
2. The point is a reflection of in . Find the coordinates of .
3. The line has equation:

The plane has equation:

The line is a reflection of in the plane . Find a vector equation of the line .