

## 9B Part 2 Cartesian 3D Planes

2D notes:

1. The straight line graph has normal vector  $\begin{pmatrix} -1 \\ 4 \end{pmatrix}$  and passes through  $(2,3)$ . Find the equation of the line.

3D notes:

2. The plane  $\Pi$  is perpendicular to the normal vector  $\mathbf{n} = 3\mathbf{i} - 2\mathbf{j} + \mathbf{k}$  and passes through the point P with position vector  $8\mathbf{i} + 4\mathbf{j} - 7\mathbf{k}$ . Find a Cartesian equation of  $\Pi$ .

