Plane
$$\Pi$$
 has vector equation $\underline{r} = \begin{bmatrix} 0 \\ 0 \\ 4 \end{bmatrix} + \lambda \begin{bmatrix} 3 \\ 0 \\ 1 \end{bmatrix} + \mu \begin{bmatrix} 1 \\ -1 \\ 2 \end{bmatrix}$.

(a) Determine the normal vector \underline{n} for plane Π .

(3 marks)

(b) Determine the Cartesian equation for plane Π .

(2 marks)