

With respect to a fixed origin O , the line l has equation

$$\mathbf{r} = \begin{pmatrix} 13 \\ 8 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ 2 \\ -1 \end{pmatrix}, \text{ where } \lambda \text{ is a scalar parameter.}$$

The point A lies on l and has coordinates $(3, -2, 6)$.

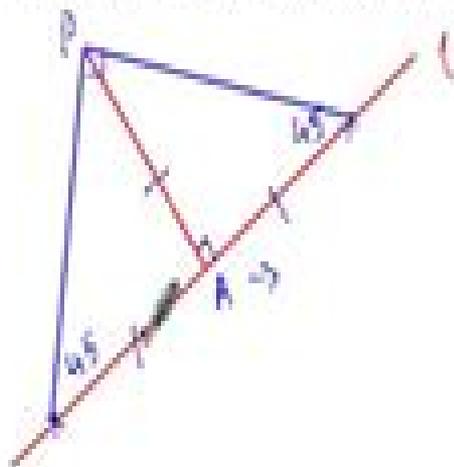
The point P has position vector $(-p\mathbf{i} + 2p\mathbf{k})$ relative to O , where p is a constant.

Given that vector \vec{PA} is perpendicular to l ,

(a) find the value of p .

Given also that B is a point on l such that $\angle BPA = 45^\circ$,

(b) find the coordinates of the two possible positions of B .



$$\begin{aligned} \text{a) } \vec{PA} &= \mathbf{a} - \mathbf{p} \\ &= \begin{pmatrix} 3 \\ -2 \\ 6 \end{pmatrix} - \begin{pmatrix} -p \\ 0 \\ 2p \end{pmatrix} = \begin{pmatrix} 3+p \\ -2 \\ 6-2p \end{pmatrix} \end{aligned}$$

AND

$$\begin{pmatrix} 3+p \\ -2 \\ 6-2p \end{pmatrix} \cdot \begin{pmatrix} 2 \\ 2 \\ -1 \end{pmatrix} = 0$$

$$(4) \quad 2(3+p) - 4 + 2p - 6 = 0$$

$$6 + 2p - 4 + 2p - 6 = 0$$

$$(5) \quad 4p = 4 \rightarrow p = 1$$

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G Orfield



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