2	The	points A and B have position vectors $\begin{pmatrix} 1 \\ -2 \\ 5 \end{pmatrix}$ and $\begin{pmatrix} -3 \\ -1 \\ 2 \end{pmatrix}$ respectively.	
	(i)	Find the exact length of AB .	[2]
	(ii)	Find the position vector of the midpoint of AB .	[1]
	The	points P and Q have position vectors $\begin{bmatrix} 1 \\ 2 \end{bmatrix}$ and $\begin{bmatrix} 5 \\ 1 \end{bmatrix}$ respectively.	

[3]

(iii)

Show that *ABPQ* is a parallelogram.