| 4 | The points A, B and C have position vectors | $\begin{bmatrix} 1 \\ 5 \end{bmatrix}$ and $\begin{bmatrix} 3 \\ 3 \end{bmatrix}$ respectively. | |
|---|---|---|-----|
| | M is the midpoint of BC . | | |
| | (a) Find the position vector of the point L | O such that $\overrightarrow{BC} = \overrightarrow{AD}$. | [3] |

Find the magnitude of \overrightarrow{AM} .

(-2) (2) (6)