

The diagram shows a pyramid OABCD with a horizontal rectangular base OABC. The sides OA and AB have lengths of 8 units and 6 units respectively. The point E on OB is such that OE = 2 units. The point E of the pyramid is 7 units vertically above E. Unit vectors E i, E and E are parallel to E0, E0 and E0 respectively.

(i)	Show that $\overrightarrow{OE} = 1.6\mathbf{i} + 1.2\mathbf{j}$.	[2]
(ii)	Use a scalar product to find angle <i>BDO</i> .	[7]
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