



$ABCD$  is a parallelogram.

The diagonals of the parallelogram intersect at  $O$ .

$$\vec{OA} = \mathbf{a} \text{ and } \vec{OB} = \mathbf{b}$$

(a) Find, in terms of  $\mathbf{b}$ , the vector  $\vec{DB}$ .

.....  
(1)

(b) Find, in terms of  $\mathbf{a}$  and  $\mathbf{b}$ , the vector  $\vec{AB}$ .

.....  
(1)

(c) Find, in terms of  $\mathbf{a}$  and  $\mathbf{b}$ , the vector  $\vec{AD}$ .

.....  
(1)

(Total for Question 27 is 3 marks)

**TOTAL FOR PAPER IS 80 MARKS**

