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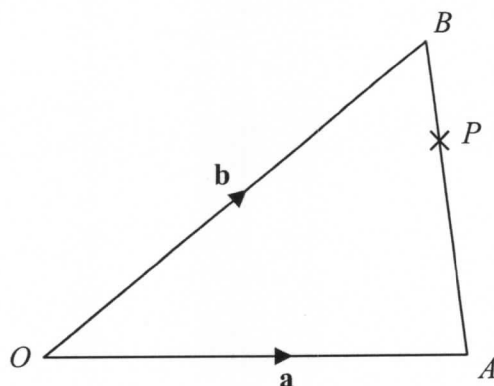


Diagram **NOT** accurately drawn

$OAB$  is a triangle.

$$\vec{OA} = \mathbf{a}$$

$$\vec{OB} = \mathbf{b}$$

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

.....  
(1)

$P$  is the point on  $AB$  such that  $AP : PB = 3 : 1$

(b) Find  $\vec{OP}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$ .

Give your answer in its simplest form.

.....  
(3)

(Total for Question 26 is 4 marks)

**TOTAL FOR PAPER IS 100 MARKS**

