

27

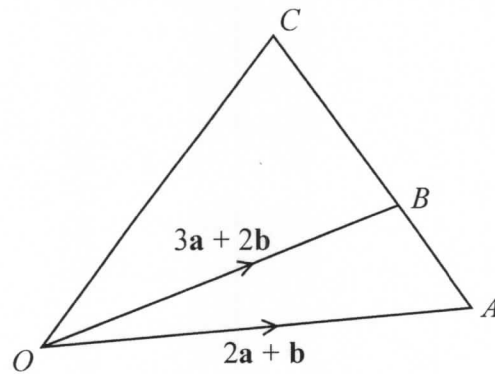


Diagram NOT  
accurately drawn

$ABC$  is a straight line.

$$AB : BC = 2 : 5$$

$$\vec{OA} = 2\mathbf{a} + \mathbf{b}$$

$$\vec{OB} = 3\mathbf{a} + 2\mathbf{b}$$

Express  $\vec{OC}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$ .

Give your answer in its simplest form.

(Total for Question 27 is 4 marks)

