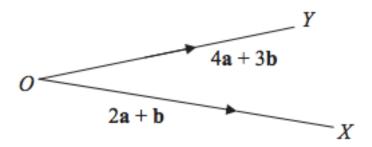
## Geometry - Vectors

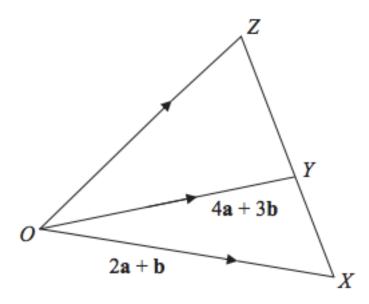


$$\overrightarrow{OX} = 2\mathbf{a} + \mathbf{b}$$

$$\overrightarrow{OY} = 4\mathbf{a} + 3\mathbf{b}$$

(a) Express the vector in terms of a and b Give your answer in its simplest form.

**(2)** 



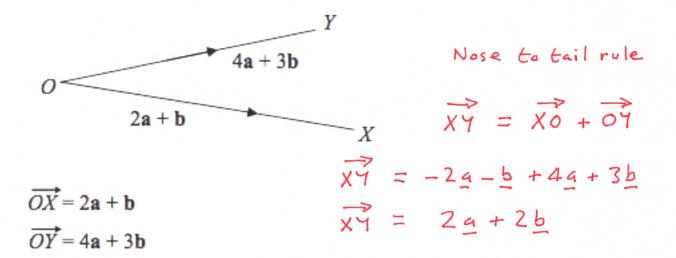
XYZ is a straight line.

$$XY : YZ = 2 : 3$$

(b) Express the vector a in terms of a and b Give your answer in its simplest form.

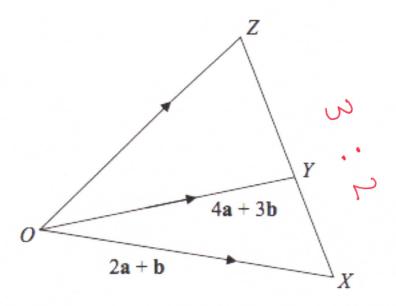
(3)

## Geometry - Vectors



**(2)** 

(a) Express the vector XY in terms of a and b
 Give your answer in its simplest form.



XYZ is a straight line.

XY:YZ=2:3

(b) Express the vector \( \overline{OZ} \) in terms of \( \mathbf{a} \) and \( \mathbf{b} \)
Give your answer in its simplest form.

Give your answer in its simplest form.  

$$0\overrightarrow{2} = \overrightarrow{09} + \cancel{72}$$

$$= 49 + 35 + \cancel{2}(24 + 25)$$

$$= 44 + 35 + 34 + 35$$

$$= 74 + 65$$
(3)