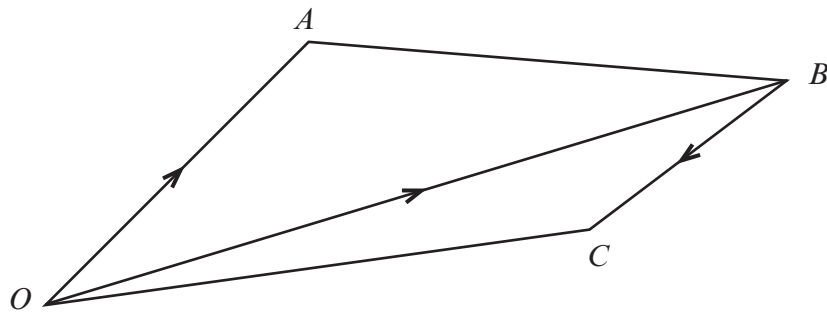


14.

*Diagram not drawn to scale*

The vectors **OA**, **OB** and **BC** are given by  
**OA** =  $8\mathbf{x}$ , **OB** =  $5\mathbf{x} + 2\mathbf{y}$  and **BC** =  $-(2\mathbf{x} + \mathbf{y})$ .

Express each of the following in terms of  $\mathbf{x}$  and  $\mathbf{y}$  in their simplest form.

(a) **AB**

.....

.....

.....

[2]

(b) **OC**

.....

.....

.....

[2]