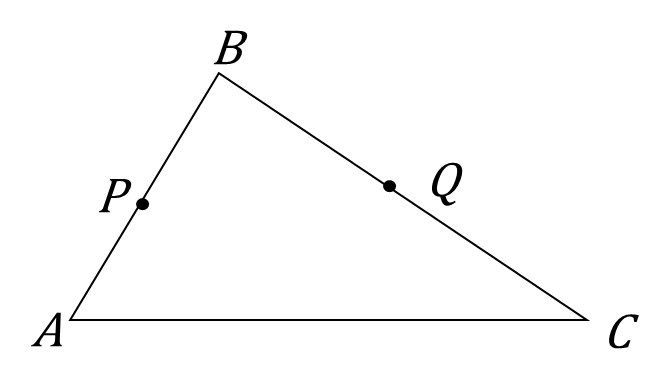
Vectors GREEN

1. Group the following into sets of parallel vectors. Justify your decisions.

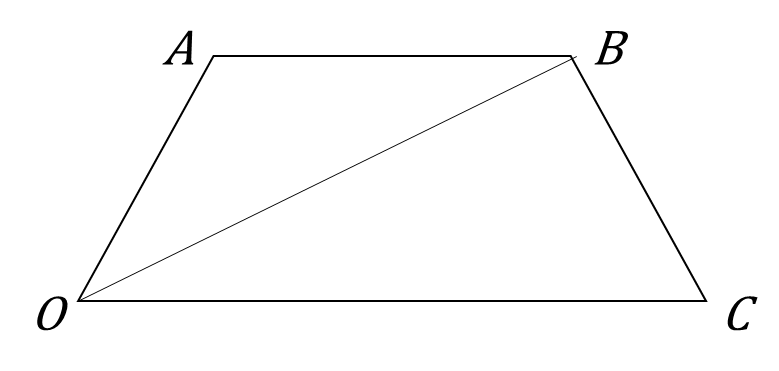
2. In triangle , and . is the midpoint of and is the midpoint of .

a) Write in terms of and :

i) ii) iii) iv)

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

b) Show that is parallel to .

****

3. is a quadrilateral. **,**  and .

a) Find, in terms of and:

i) ii)

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

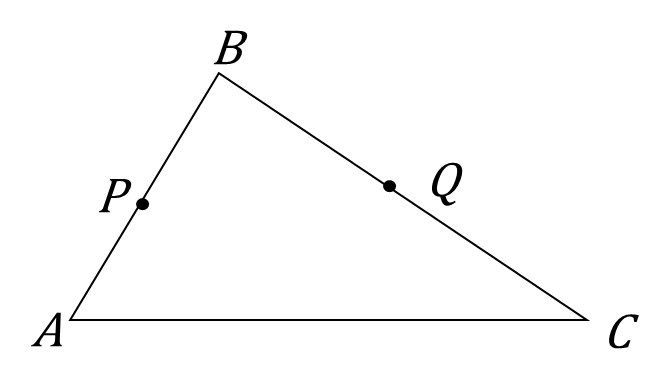
b) Show that is parallel to .

4. The vectors and are parallel. Find the value of .

Vectors AMBER

1. Group the following into sets of parallel vectors. Justify your decisions.

Start by factorising any vectors that can be factorised

2. In triangle , and . is the midpoint of and is the midpoint of .

Try sketching and labelling a larger version of this diagram

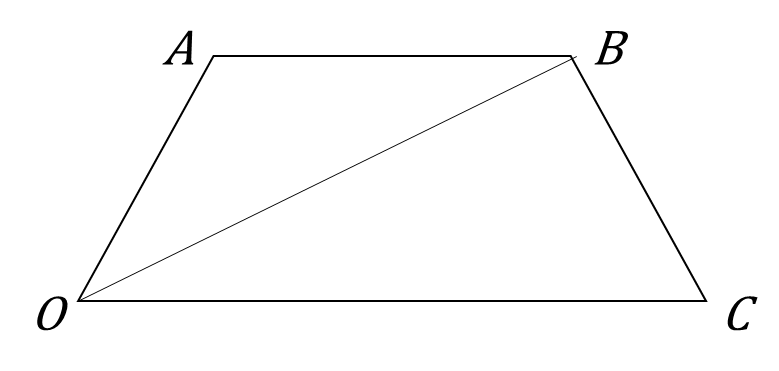
a) Write in terms of and :

i) ii) iii) iv)

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Look for a common factor

b) Show that is parallel to .

****

3. is a quadrilateral. **,**  and .

Try sketching and labelling a larger version of this diagram

a) Find, in terms of and:

i) ii)

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Look for a common factor

b) Show that is parallel to .

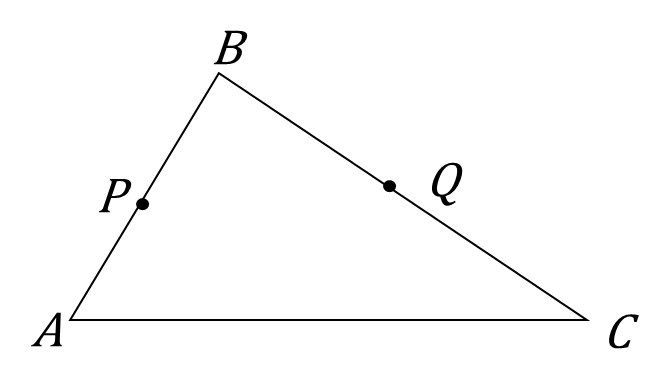
4. The vectors and are parallel. Find the value of .

Factorise both vectors and compare

Vectors RED

1. Group the following into sets of parallel vectors. Justify your decisions.

Start by factorising any vectors that can be factorised

2. In triangle , and . is the midpoint of and is the midpoint of .

Try sketching and labelling a larger version of this diagram

a) Write in terms of and :

i) ii) iii) iv)

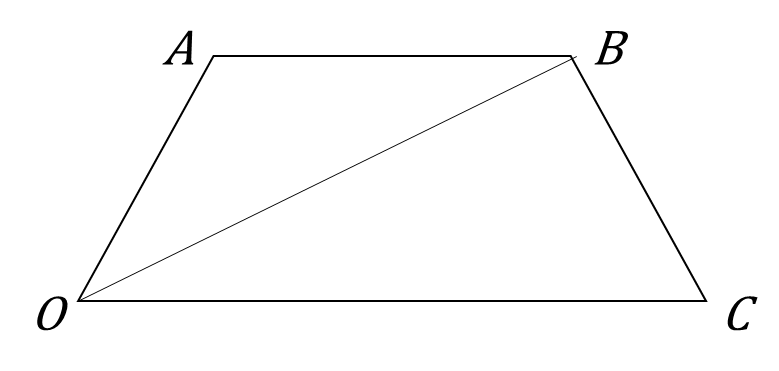
\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Look for a common factor

b) Show that is parallel to .

\_\_\_\_\_\_\_\_\_\_ = \_\_ ( \_\_\_\_\_\_\_\_\_ )

\_\_\_\_\_\_\_\_\_\_ = \_\_ ( \_\_\_\_\_\_\_\_\_ )

****

3. is a quadrilateral. **,**  and .

Try sketching and labelling a larger version of this diagram

a) Find, in terms of and:

i) ii)

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Look for a common factor

b) Show that is parallel to .

\_\_\_\_\_\_\_\_\_\_ = \_\_ ( \_\_\_\_\_\_\_\_\_ )

\_\_\_\_\_\_\_\_\_\_ = \_\_ ( \_\_\_\_\_\_\_\_\_ )

4. The vectors and are parallel. Find the value of .

Factorise both vectors and compare