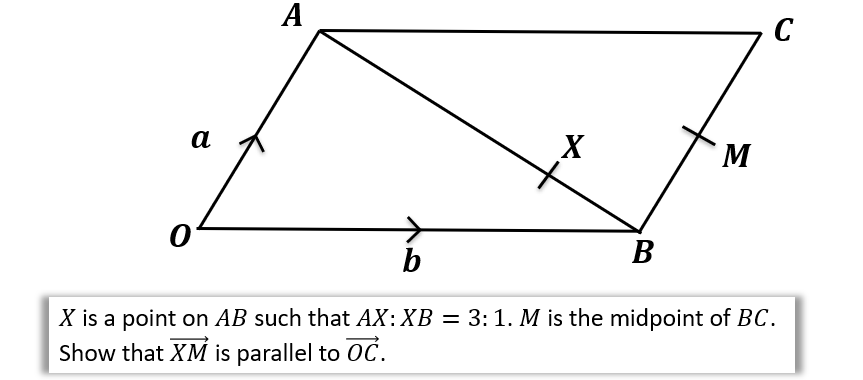
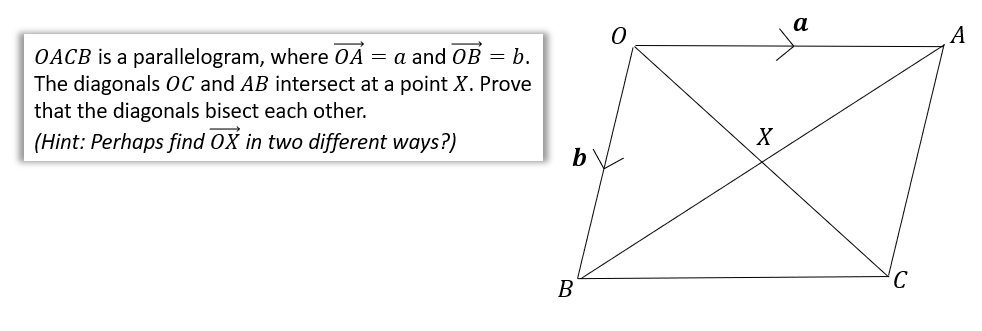
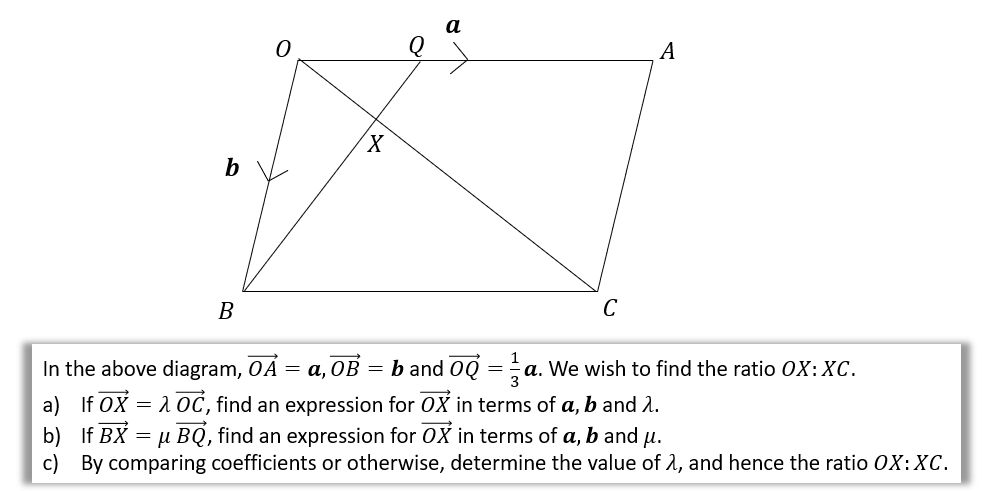
Solving Geometric Problems





Test your understanding



Area of a triangle example

If and . Determine .

Extension

*[STEP 2010 Q7]*

Relative to a fixed origin , the points and have position vectors and , respectively. (The points and are not collinear.) The point has position vector given by

where and are positive constants with . The lines and meet at the point with position vector and the lines and meet at the point with position vector . Show that

and write down in terms of and .

Show further that the point with position vector given by

lies on the lines and .

The lines and intersect at the point . Prove that .

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