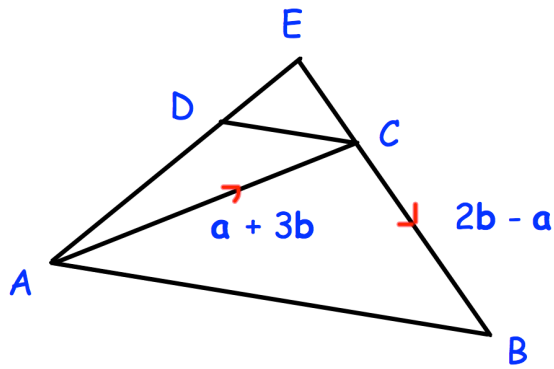


15th August



Corbettmaths



Find the vector

$$\vec{AB}$$

$$\vec{EC} = \frac{1}{5}\vec{CB}$$

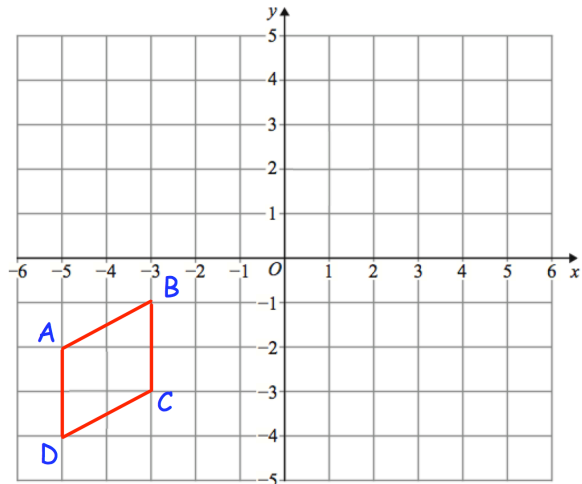
$$\vec{DE} = \frac{1}{5}\vec{a}$$

Prove DC is parallel to AB

Here is quadrilateral ABCD

ABCD is reflected in the line  $x = -1$   
 followed by a reflection in the line  
 $y = -x$   
 followed by a rotation of  $180^\circ$  about  
 $(-1, -1)$

Which of the vertices are invariant?



$$A = \{2, 3, 4, 5, 7\}$$

$$B = \{2, 3, 5, 9\}$$

Find  $P(A' \cup B')$