

Enlargements

1) Draw axes labelled from -10 to 10 on x and -15 to 10 on y. Draw and label the shape S with vertices at A(3,1), B(5,1) and C(3,5). Then draw and label the following shapes:

T: the image of S after an enlargement centre (8,8), scale factor 3

U: the image of S after an enlargement centre (-7,3), scale factor $\frac{1}{2}$

What transformation would take shape U to shape T?

2) Draw axes labelled from -15 to 6 on x and -5 to 10 on y. Draw and label the shape S with vertices at A(3,4), B(5,0) and C(3,-2). Then draw and label the following shapes:

T: the image of S after an enlargement centre (-1,2), scale factor -2

U: the image of S after an enlargement centre (-1,2), scale factor $-\frac{1}{2}$

What transformation would take shape T to shape U?

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