

ACTION

RESPONSE

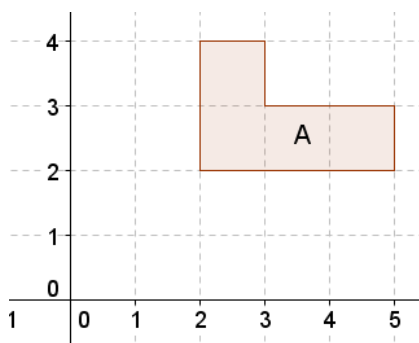
Rotate the point $(3,4)$ and write down the image after a rotation about each of these points by the given angle:

Fluency



- (a) $(0,0)$ 180°
- (b) $(0,4)$ 90° Clockwise
- (c) $(4,6)$ 180°
- (d) $(4,0)$ 90° Anticlockwise
- (e) $(2,-1)$ 90° Clockwise
- (f) $(-3,-2)$ 90° Anticlockwise

Reasoning



If I rotate shape A and then rotate the new shape (B) and label the final shape C then it is always possible to get from A to C by a rotation.

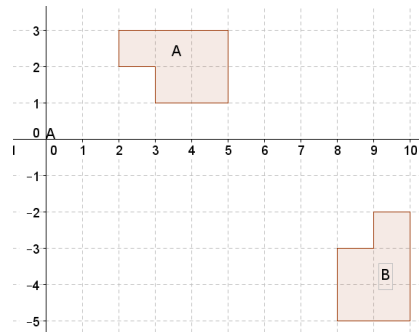
Problem Solving



Rotate A by 90° Clockwise centre $(0,0)$. What translation is needed to move the image to position B?

Repeat but rotate about the point $(1,0)$, then $(2,0)$

What do you notice and what can you conclude?



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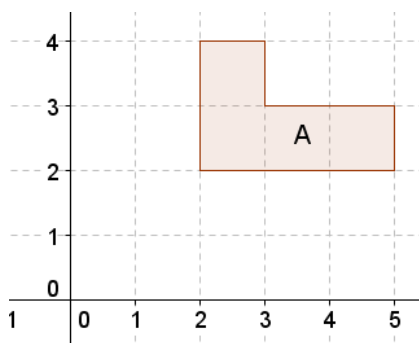
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