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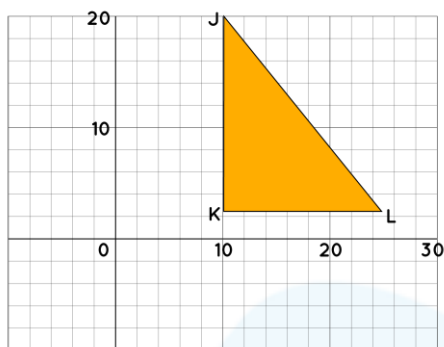
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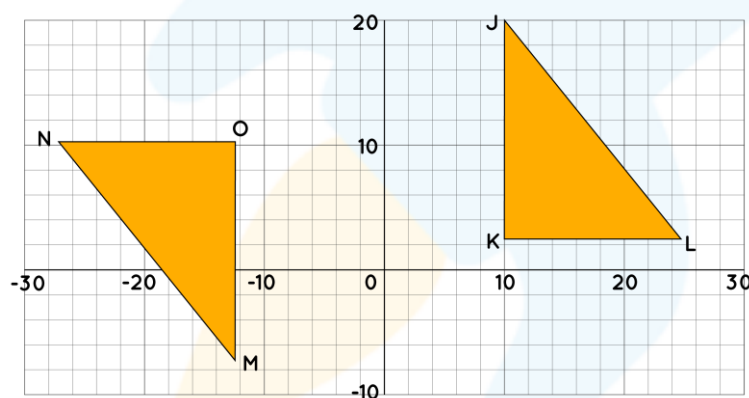
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## TRANSFORMATION WORKSHEET III

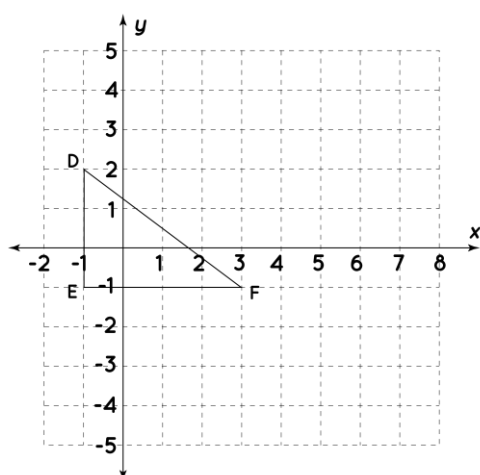
- 1) What will be the new position of the point  $(0, 0)$  on rotating it about  $42.5$  degrees clockwise about the origin?
- 2) On rotating the given triangle by  $180$  degrees anticlockwise, what will be the new figure?



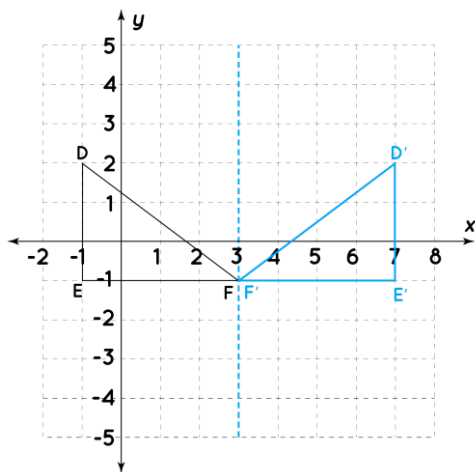
Answer:



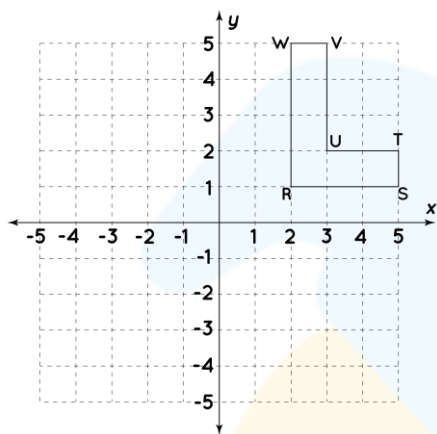
- 3) Find the reflection of the given figure across the line  $x = 3$ .



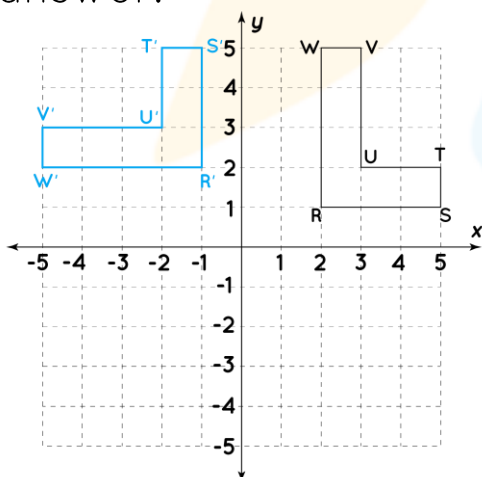
answer



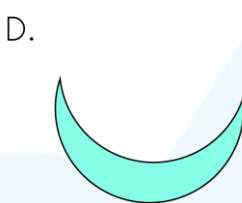
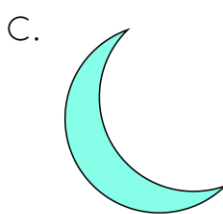
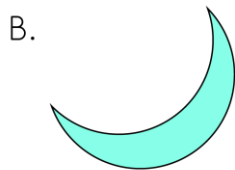
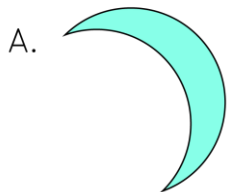
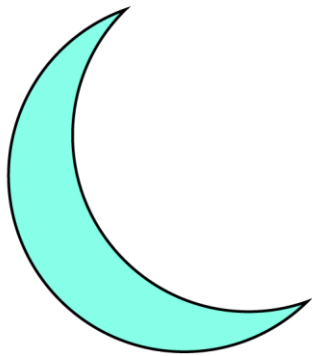
4) For the given figure, rotating it through 90 degrees clockwise, what will be the result?



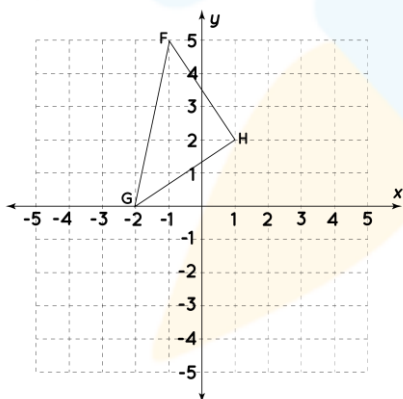
answer:



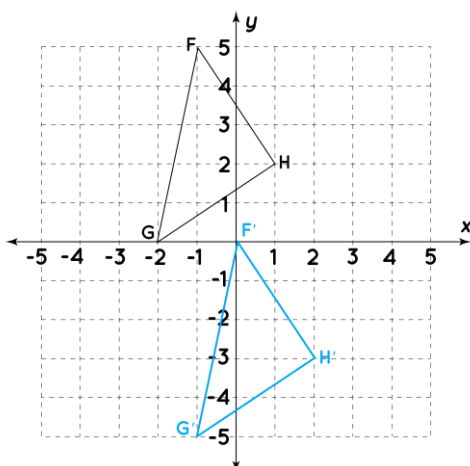
5) If you rotate the given figure by 45 degrees ACW, which figure will we get?



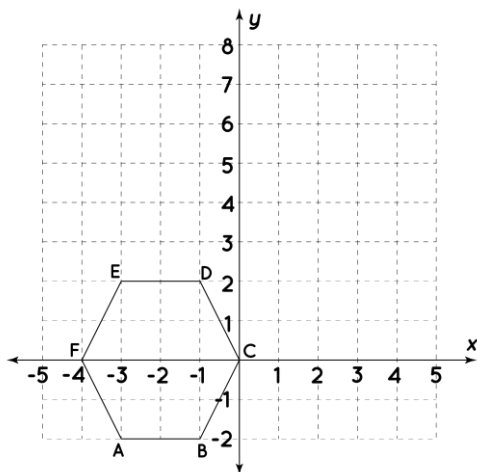
6) If we translate the given figure 5 units down and 1 unit right, which figure we will get?



Answer:

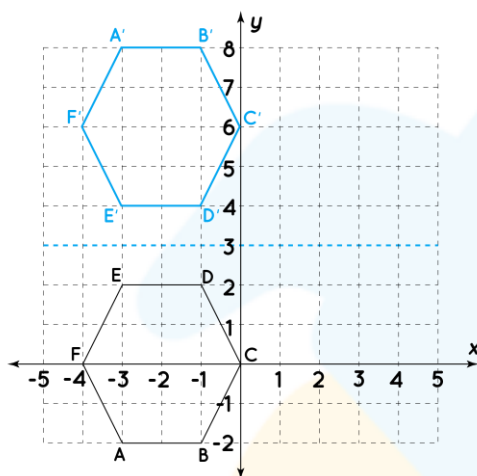


7) On finding the reflection of an object across the line  $y = 3$ , we get the following figure.

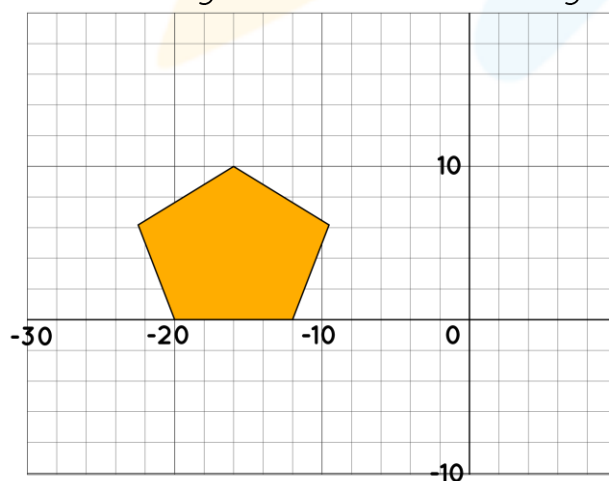


Find the original figure.

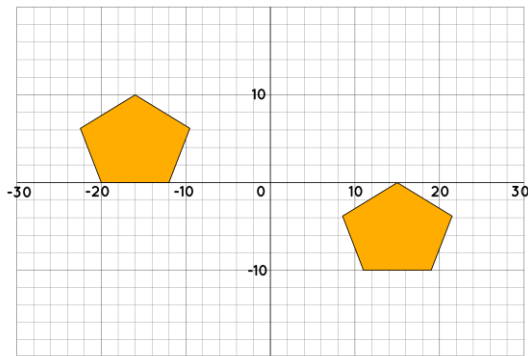
Answer:



8) Find the new position of the given figure on translating it through 20 unit right and 10 unit down.

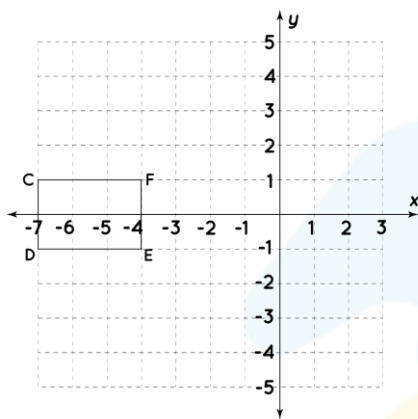


Answer:

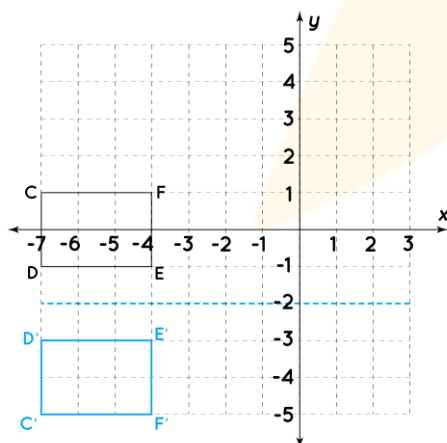


9) Find the new position of the point  $(8, 0)$  if the point is reflected along the line  $y = 0$ .

10) Find the reflection of given figure across the line  $y = -2$ .



Answer:



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"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

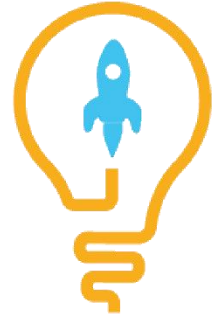
"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$(0, 0)$
2)	
3)	
4)	
5)	d
6)	
7)	
8)	
9)	$(8, 0)$
10)	