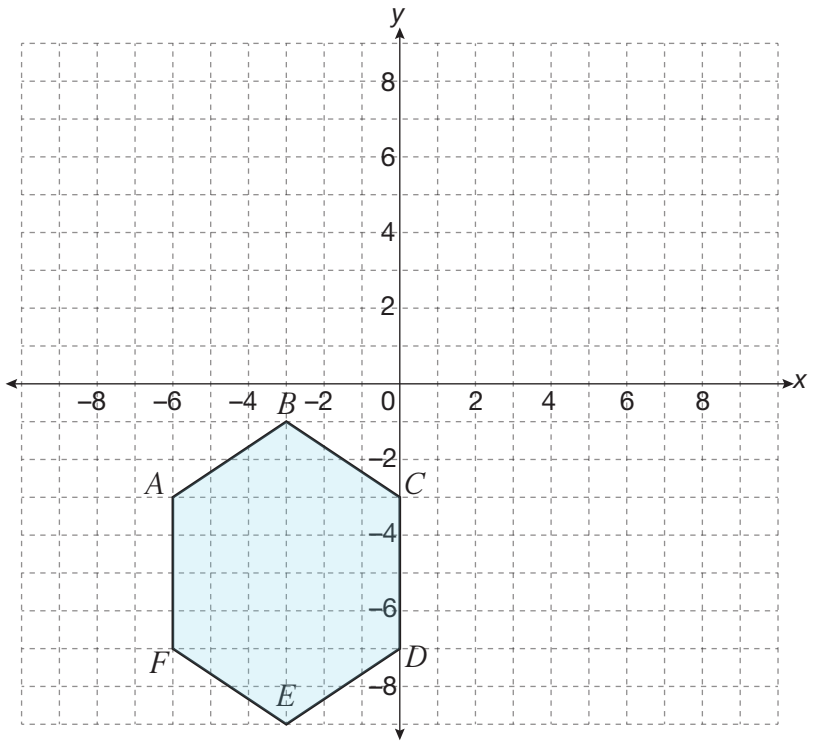
Practice – Part 1

Instructions: Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers under the Solutions tab in Moodle.

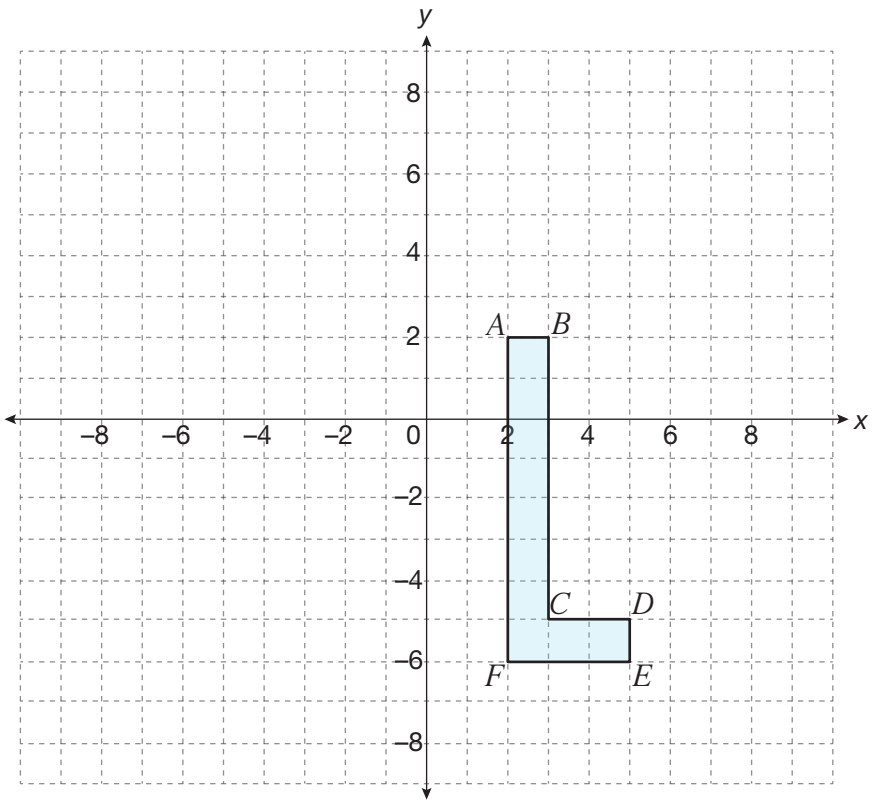
1. For the hexagon, complete the following.



a. State the coordinates of each vertex.

b. Translate the hexagon horizontally 8 units to the right and vertically 9 units up.

2. For the diagram, complete the following.

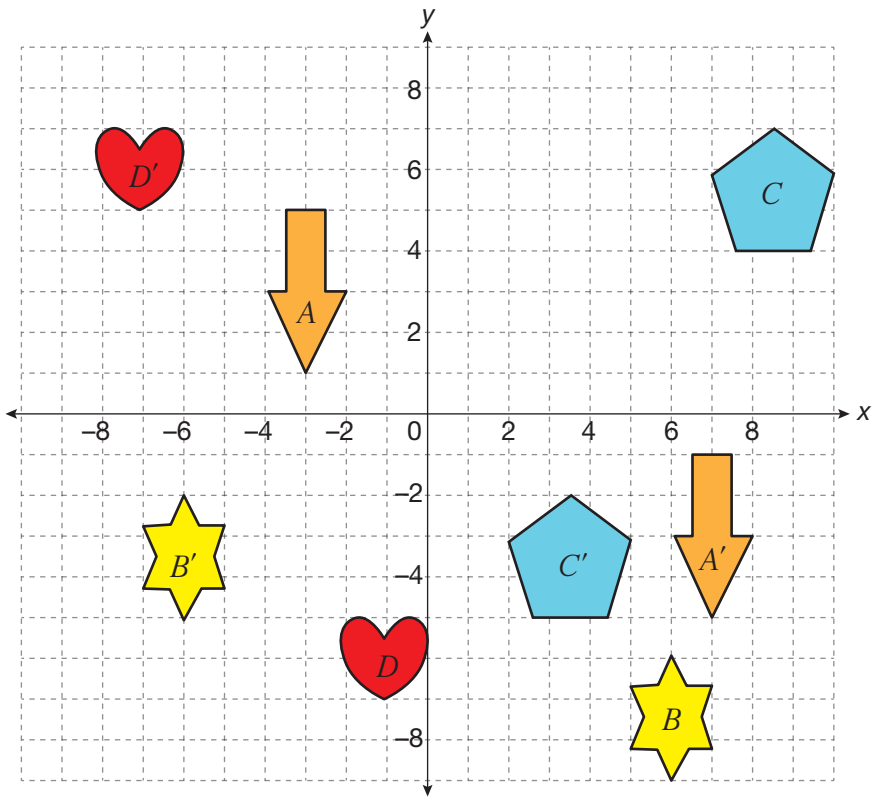


a. State the coordinates of each vertex of the letter L.

b. Translate the letter L horizontally 7 units to the left and vertically 6 units up.

c. State the coordinates of each vertex of the translated image.

3. State the number of units each shape has been translated horizontally and vertically.



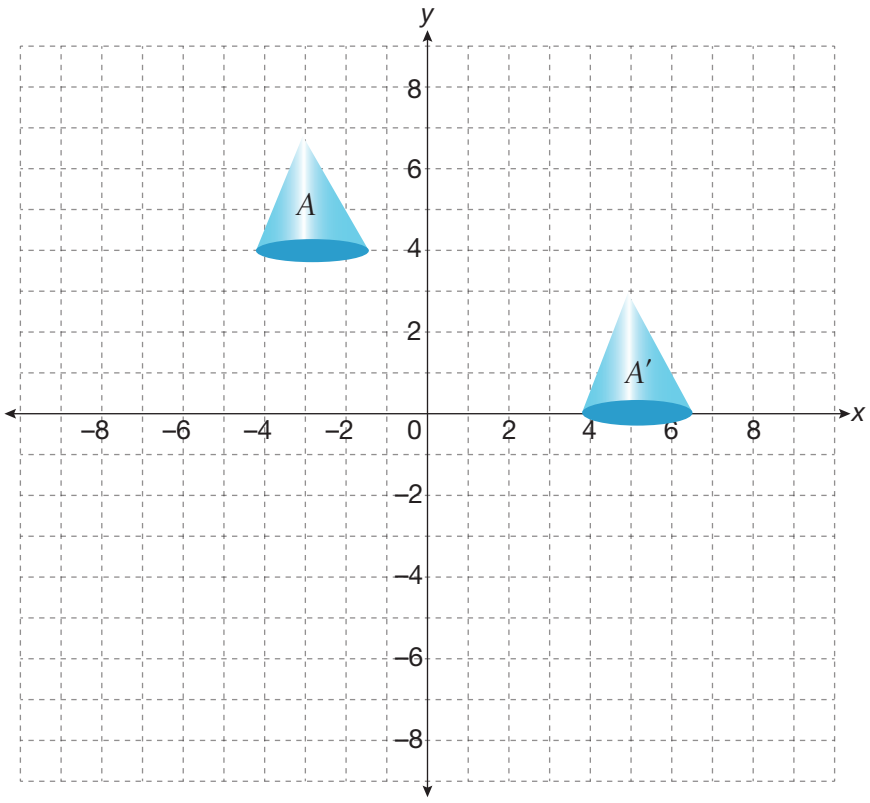
a. A to A'

b. B to B'

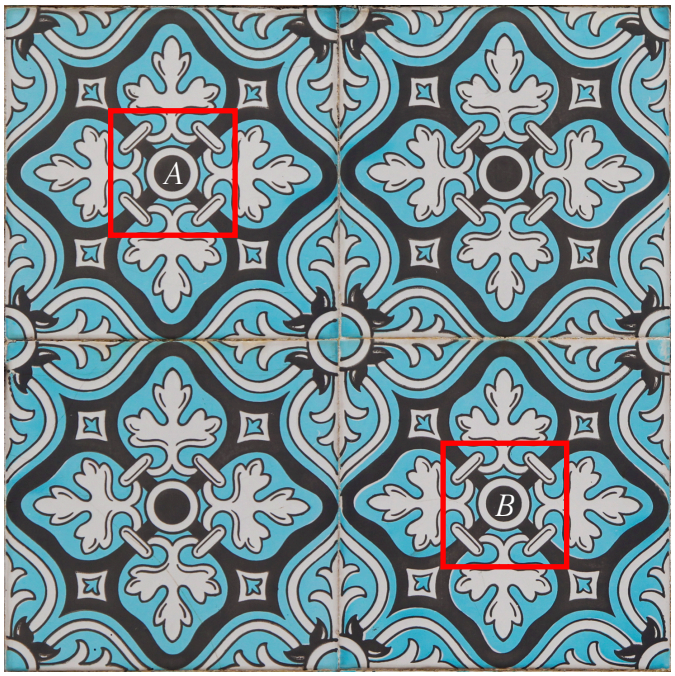
c. C to C'

d. D to D'

4. Describe how shape A has been translated horizontally and vertically to become translated image A'.

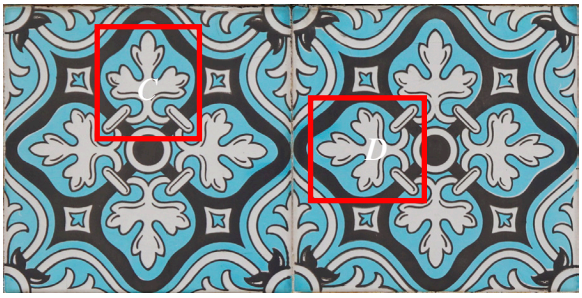


5. Use the diagram below to answer the following questions.



a. Is it possible to move from Figure A to Figure B by using just translations?

b. Is it possible to move from Figure C to Figure D by using just translations?



6. Several images of a hexagon are shown. Are any of the images a translation of the original hexagon?