The measurement of *AB* is half the length of *AC*. What are the **coordinates** of point *B*?
Give your answer in the form (x, y).
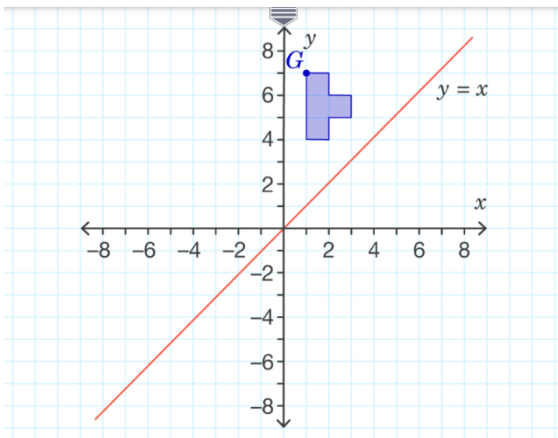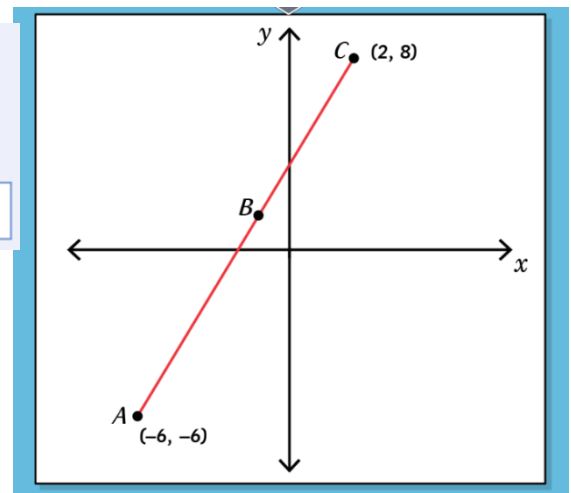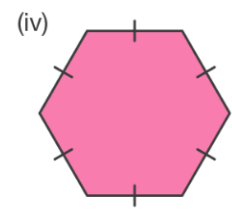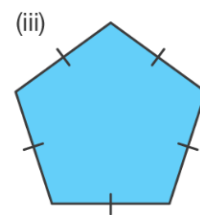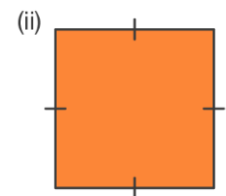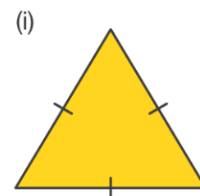

The shape is reflected in the line *y* = *x*. What are the coordinates of the point that *G* is mapped to?
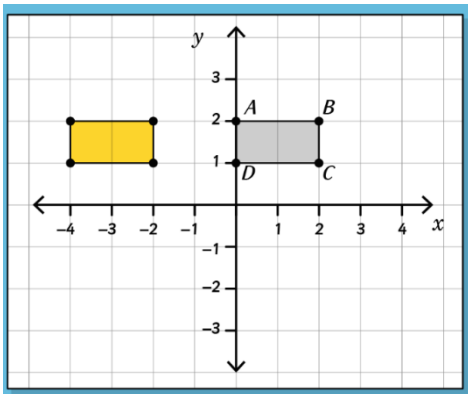*Give your answer in the form (x, y).*
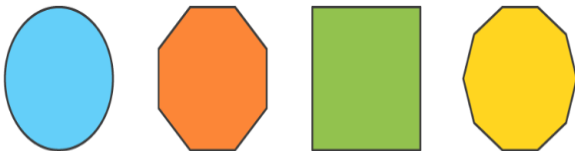
Jade says, "Out of the four shapes shown, the decagon must have the most lines of symmetry because it has the greatest number of sides. Is Jade correct? Explain your answer.
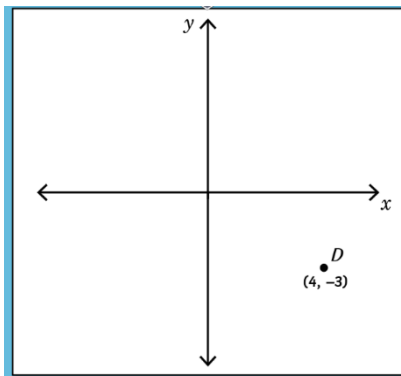

(i)

(ii)

(iii)

(iv)

Which two polygons have five or more lines of symmetry?

(i)
(ii)
(iii)
(iv)

Rectangle *ABCD* has been translated **4 left**. Select the **new** coordinates for point *A*.

(0, 2)
(2, –4)
(–4, 2)
(4, 2)

The image shows point *D* after it has been translated **7 right** and **2 down**. What were the **original** coordinates of point *D*? Give your answer in the form (x, y).
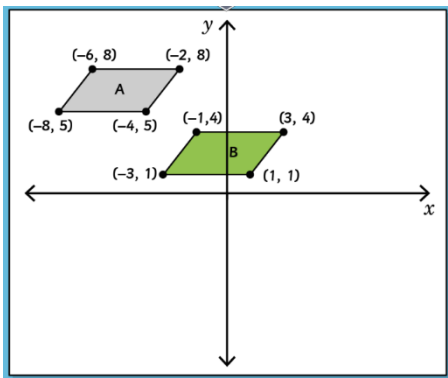
What is the translation of shape A to shape B? Select **two** translations.

5 left
5 right
4 down
4 up
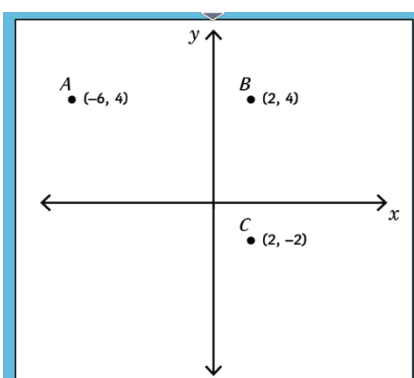
Kerry says, "If I draw a point at (–6, –2), I can join all of the dots together to make a square."
Is Kerry correct? Explain your answer.