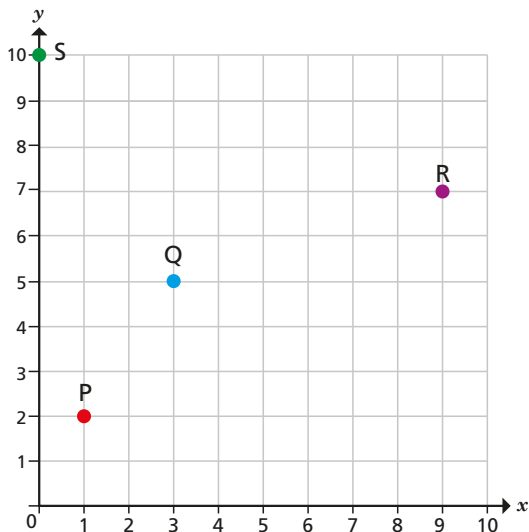


1

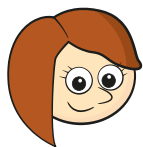


Describe the translations.

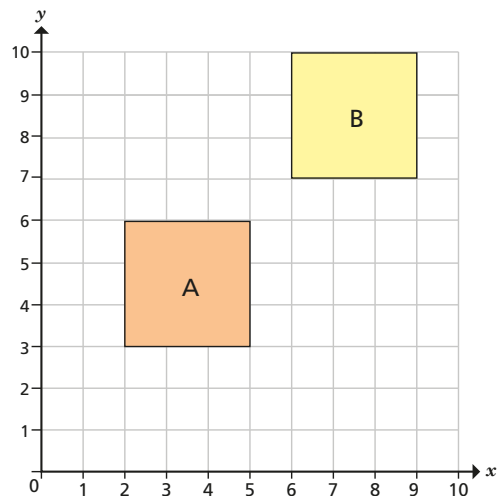
- | | | |
|----------------|----------------|----------------|
| a) From P to Q | d) From S to P | g) From S to R |
| b) From Q to R | e) From Q to P | h) From P to S |
| c) From R to S | f) From R to Q | |

2

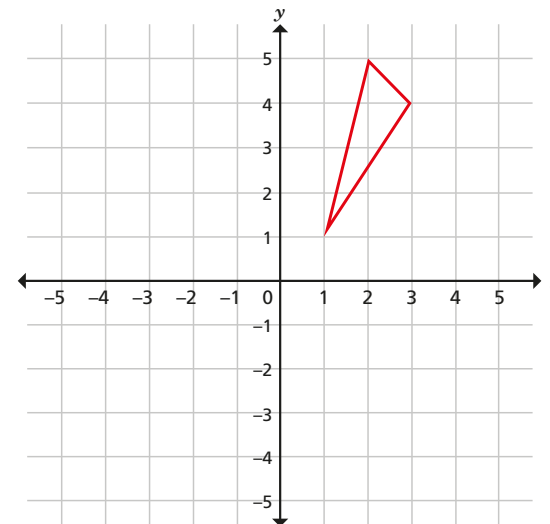
The translation from A to B is 1 right and 1 up.



Do you agree with Rosie?
Explain your answer.

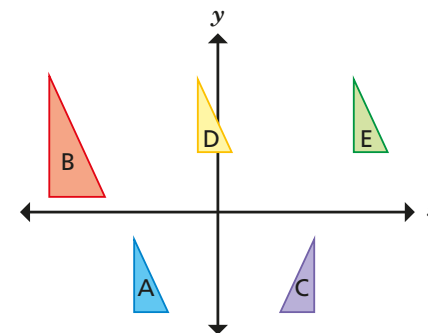


3 Translate the triangle 6 left.



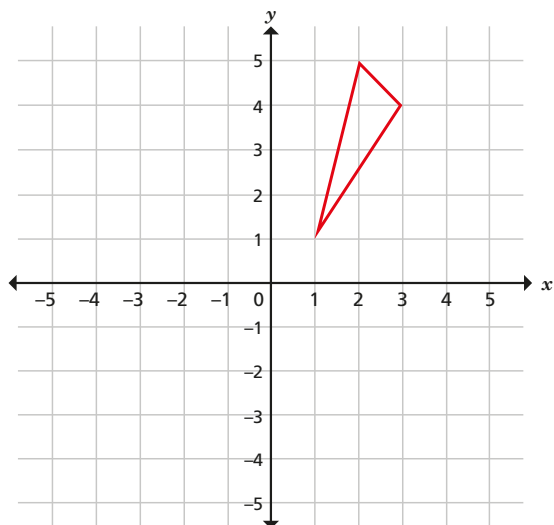
4 These coordinates form a quadrilateral: $(-5, 5)$, $(-5, 1)$, $(-1, 4)$, $(-1, 2)$
It is translated 3 right and 4 down.
Draw the quadrilateral on a blank coordinate grid in its new position.

5



Which triangles are translations of each other?
Explain why the others are not translations.

- 3 Translate the triangle 6 left.

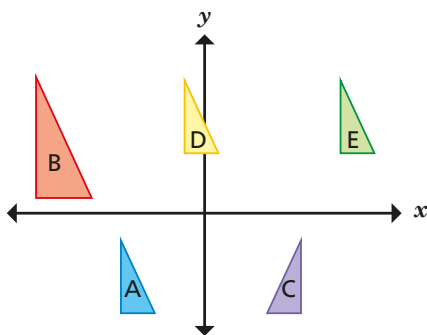


- 4 These coordinates form a quadrilateral: $(-5, 5)$, $(-5, 1)$, $(-1, 4)$, $(-1, 2)$

It is translated 3 right and 4 down.

Draw the quadrilateral on a blank coordinate grid in its **new** position.

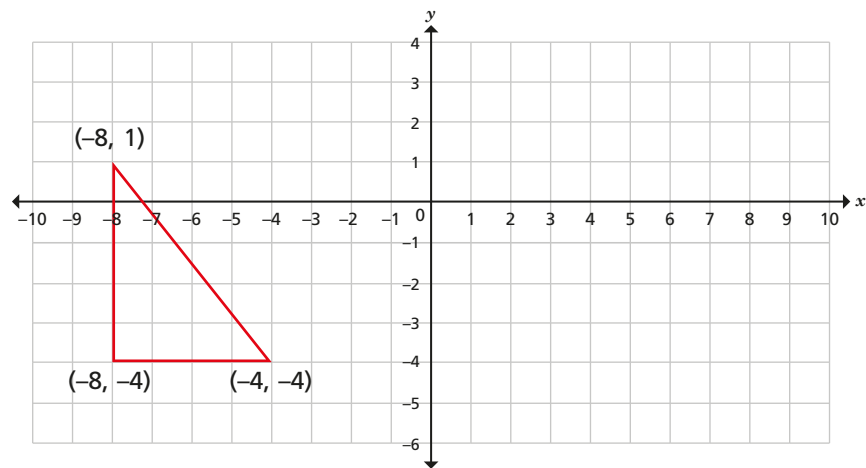
5



Which triangles are translations of each other?

Explain why the others are not translations.

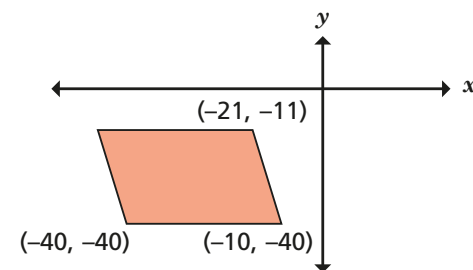
- 6 A triangle is drawn on the coordinate grid.



- a) Translate the triangle 9 right and 1 down.
b) Does each point lie inside, outside or on the perimeter of the new triangle?

$(0, 0)$ $(4, -5)$ $(2, -1)$ $(-6, -3)$ $(3, -4)$

7



This parallelogram has been translated 50 left and 25 down.

What were the coordinates of **all four** vertices before it was translated?