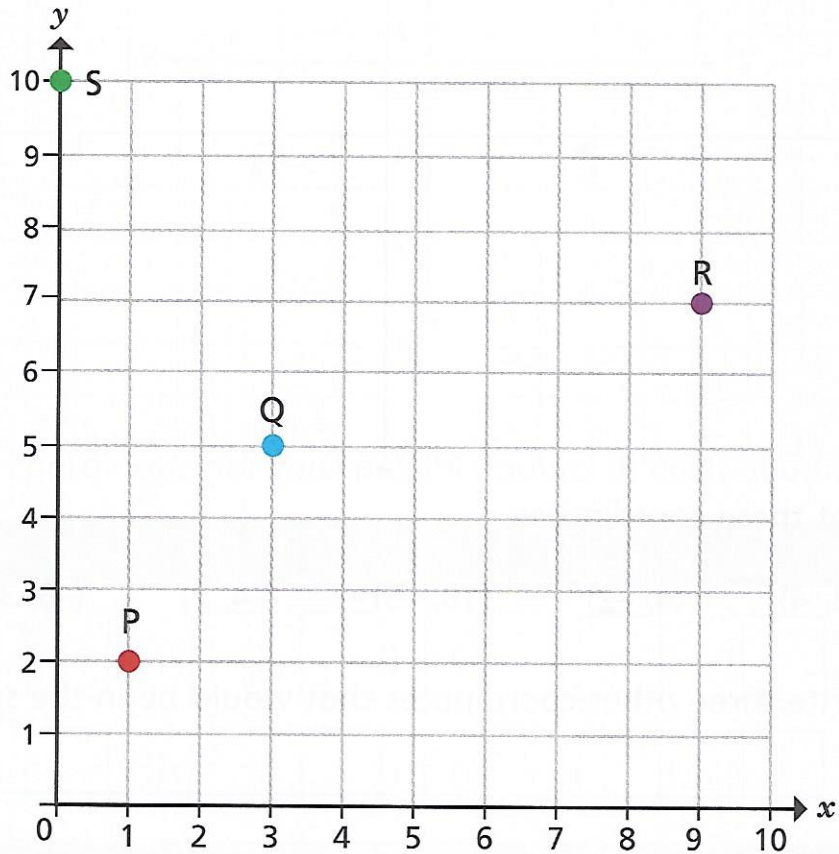


Translations

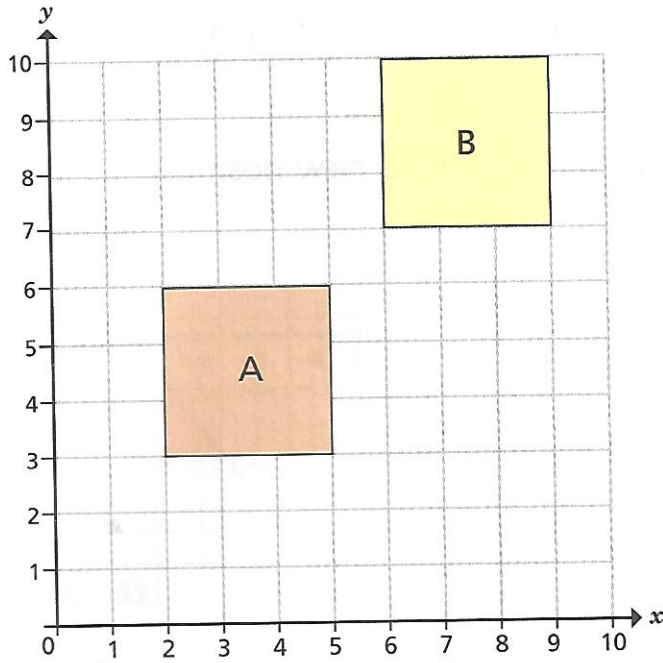
I



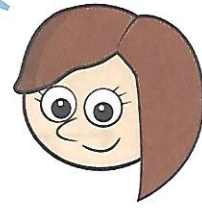
Describe the translations.

- a) From P to Q is right and up
- b) From Q to R is right and up
- c) From R to S is left and up
- d) From S to P is _____ and _____
- e) From Q to P is _____ and _____
- f) From R to Q is _____ and _____
- g) From S to R is _____ and _____
- h) From P to S is _____ and _____

2



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

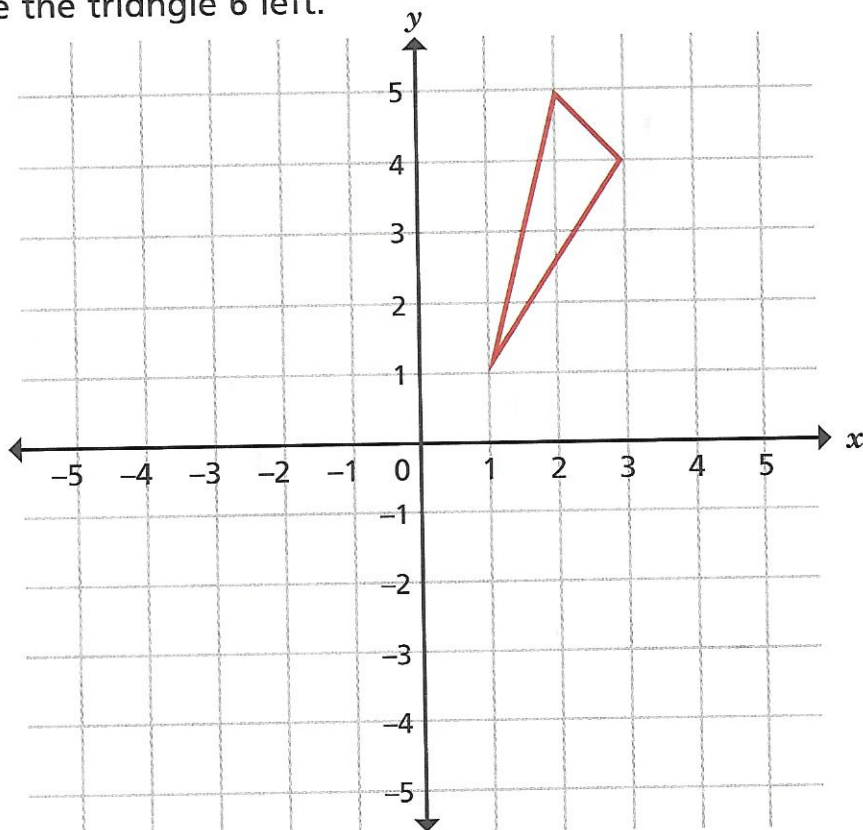


Do you agree with Rosie? _____

Explain your answer.

3

Translate the triangle 6 left.

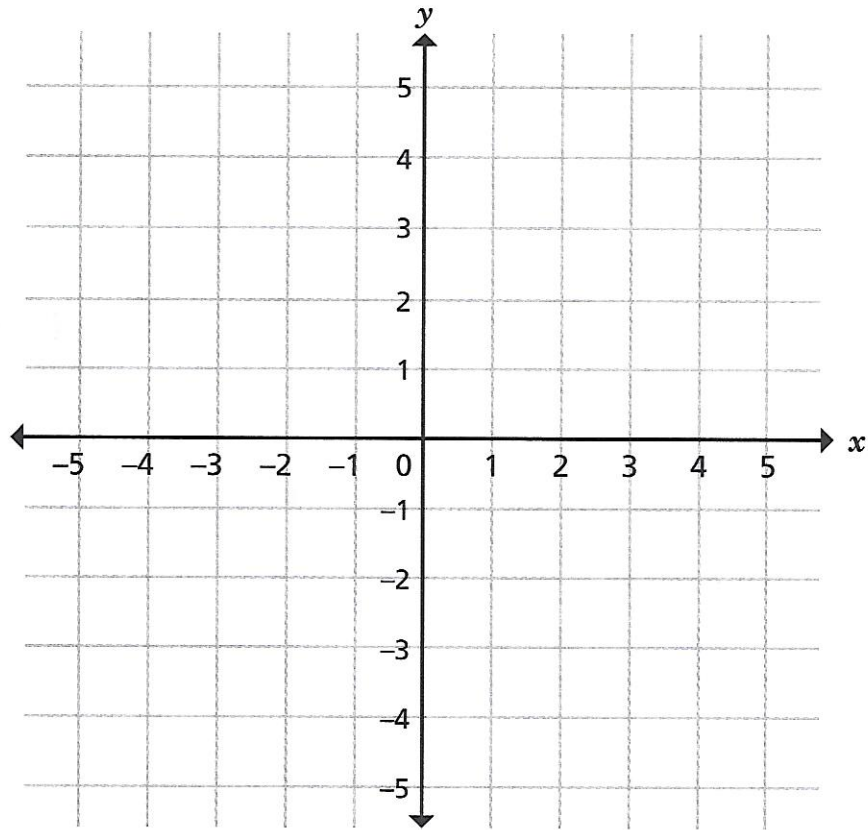


4

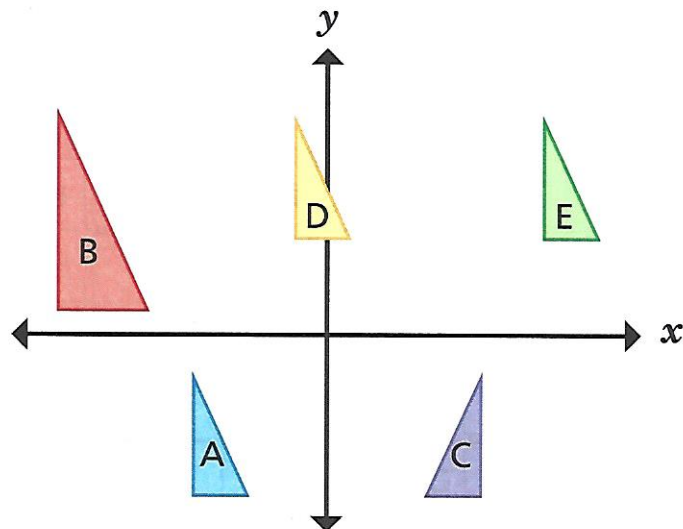
These coordinates form a quadrilateral: $(-5, 5)$, $(-5, 1)$, $(-1, 4)$, $(-1, 2)$

It is translated 3 right and 4 down.

Draw the quadrilateral on the grid in its new position.



5



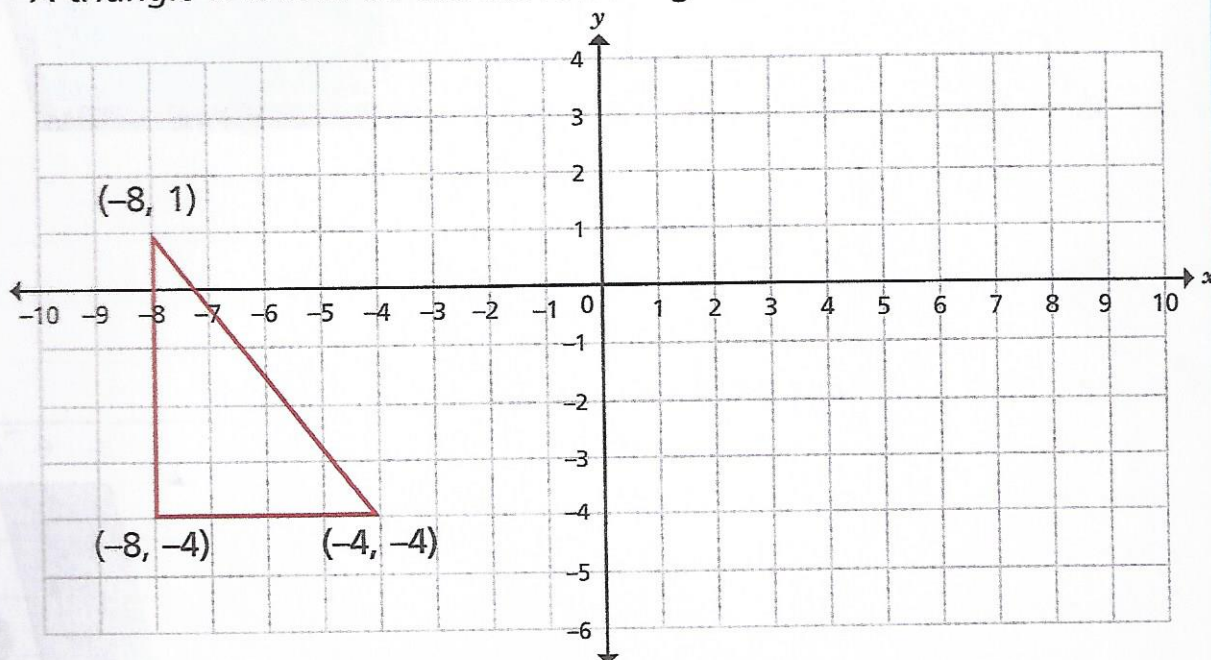
Which triangles are translations of each other?

Explain why the others are not translations.



6

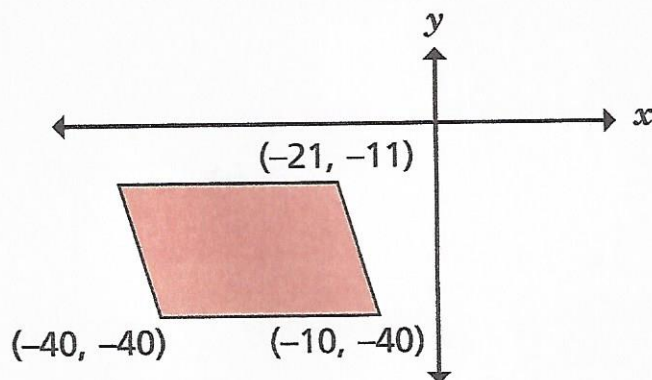
A triangle is drawn on the coordinate grid.



- a) Translate the triangle 9 right and 1 down.
 b) Tick the correct box for each coordinate.

Point	Inside the new triangle	Outside the new triangle	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?