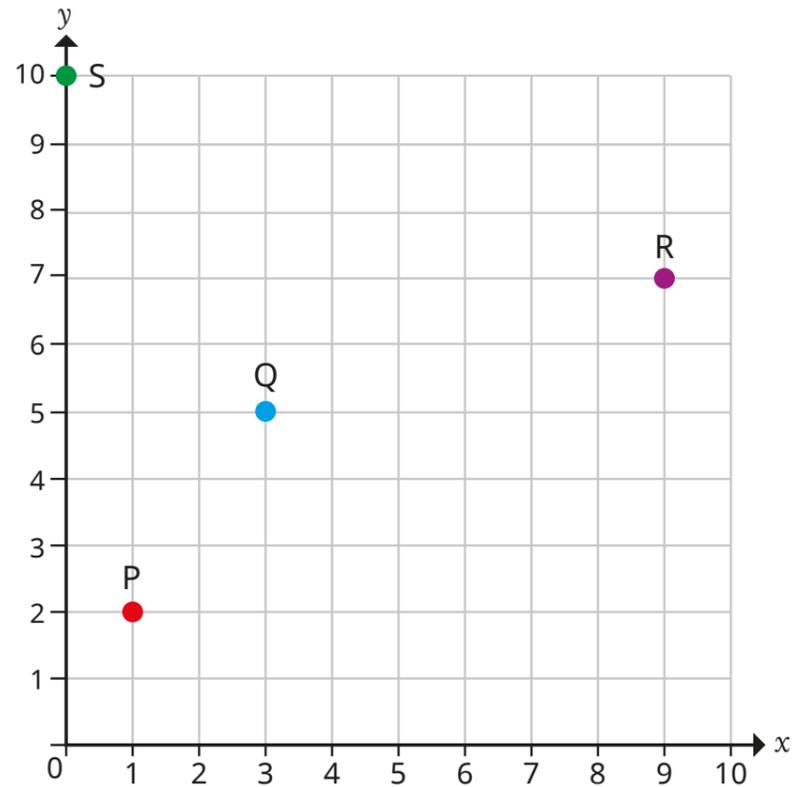


Translations

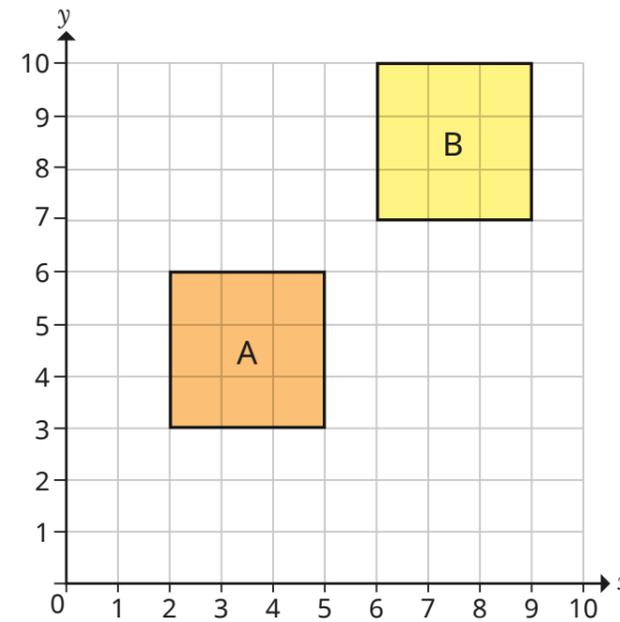
1



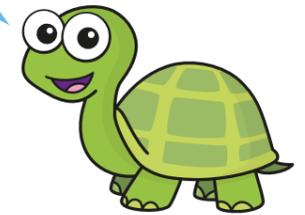
Describe the translations.

- a) From P to Q is squares right and squares up
- b) From Q to R is squares right and squares up
- c) From R to S is squares left and squares 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 square right and 1 square up.

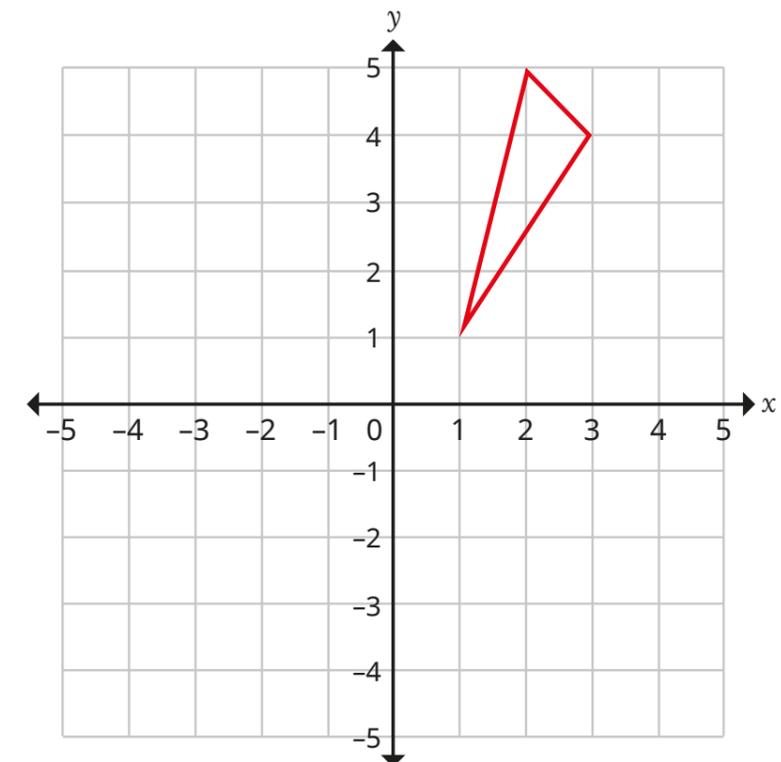


Do you agree with Tiny? _____

Explain your answer.

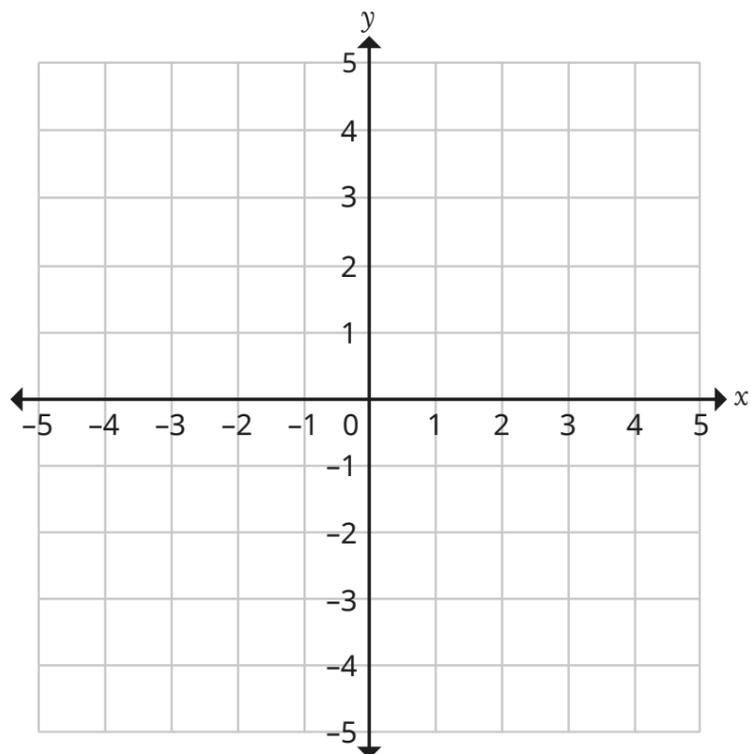
3

Translate the triangle 6 squares left.

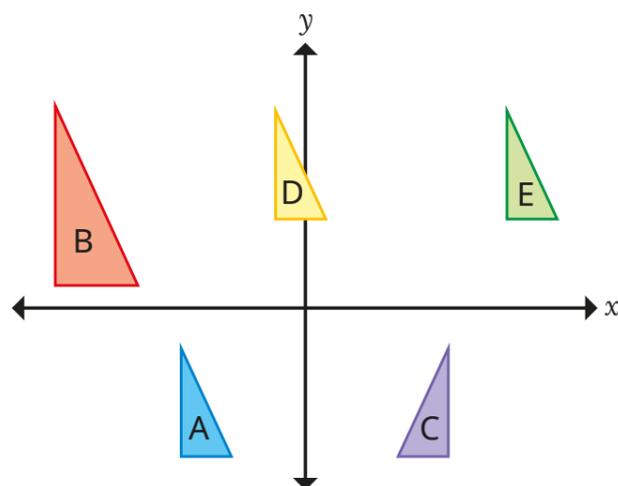




- 4 These coordinates form a quadrilateral: $(-5, 5)$, $(-5, 1)$, $(-1, 2)$, $(-1, 4)$.
It is translated 3 squares right and 4 squares down.
Draw the quadrilateral on the grid in its **new** position.



5

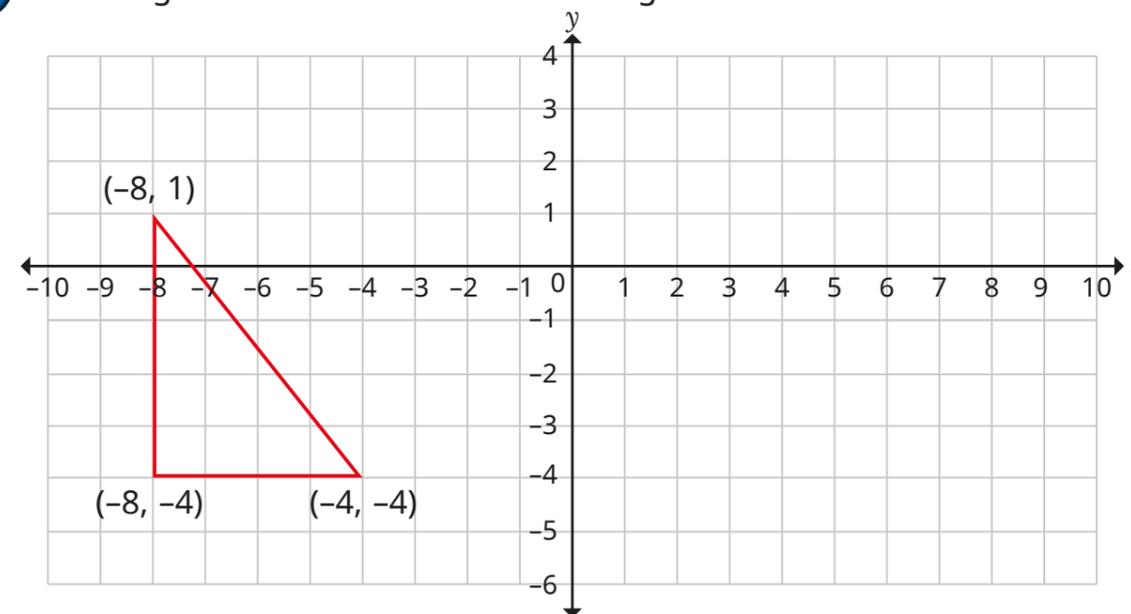


Which triangles are translations of each other?

Explain why the others are not translations.



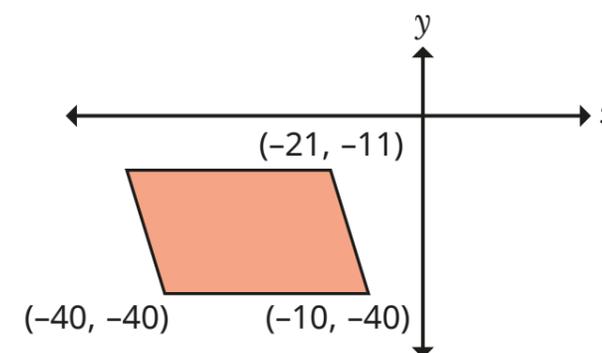
- 6 A triangle is drawn on the coordinate grid.



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

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 squares left and 25 down.
What were the coordinates of **all four** vertices before it was translated?

