Translations

1

Describe the translations.

a) From P to Q is [2] right and [3] up

b) From Q to R is [6] right and [2] up

c) From R to S is [9] left and [3] up

d) From S to P is [1] _right_ and [8] _down_

e) From Q to P is [2] _left_ and [3] _down_

f) From R to Q is [6] _left_ and [2] _down_

g) From S to R is [9] _right_ and [3] _down_

h) From P to S is [1] _left_ and [8] _up_

2
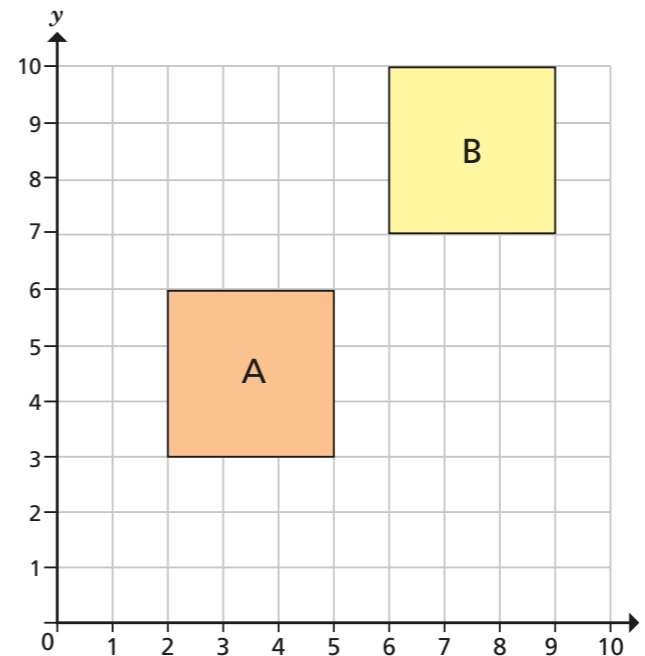
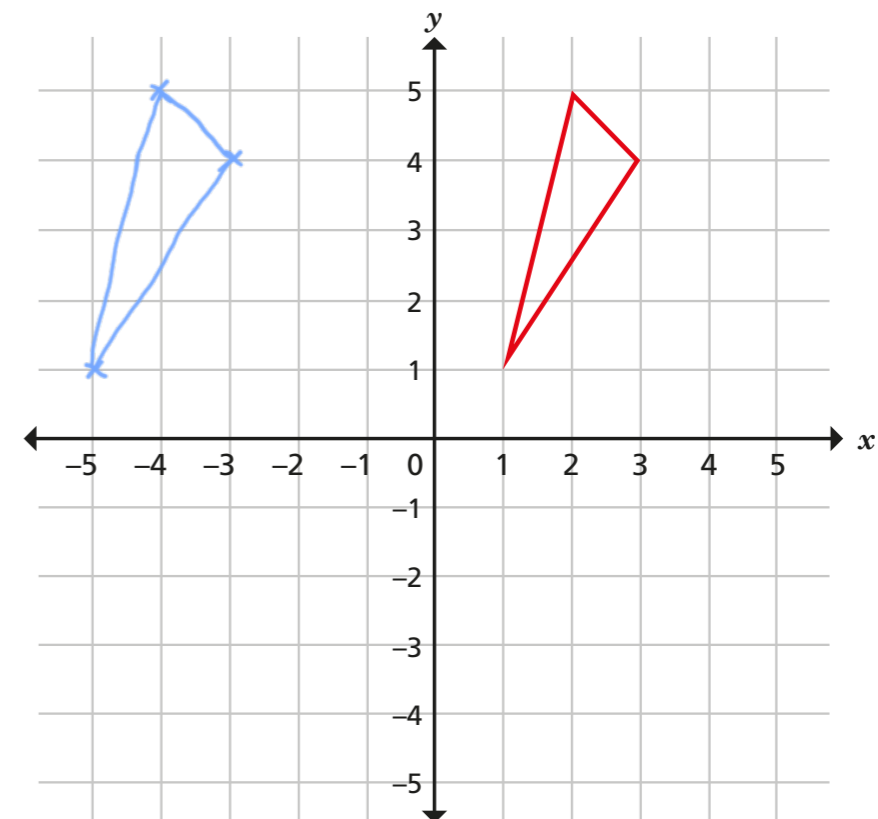The translation from A to B is 1 right and 1 up.
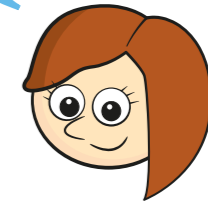
Do you agree with Rosie? _No_

Explain your answer.

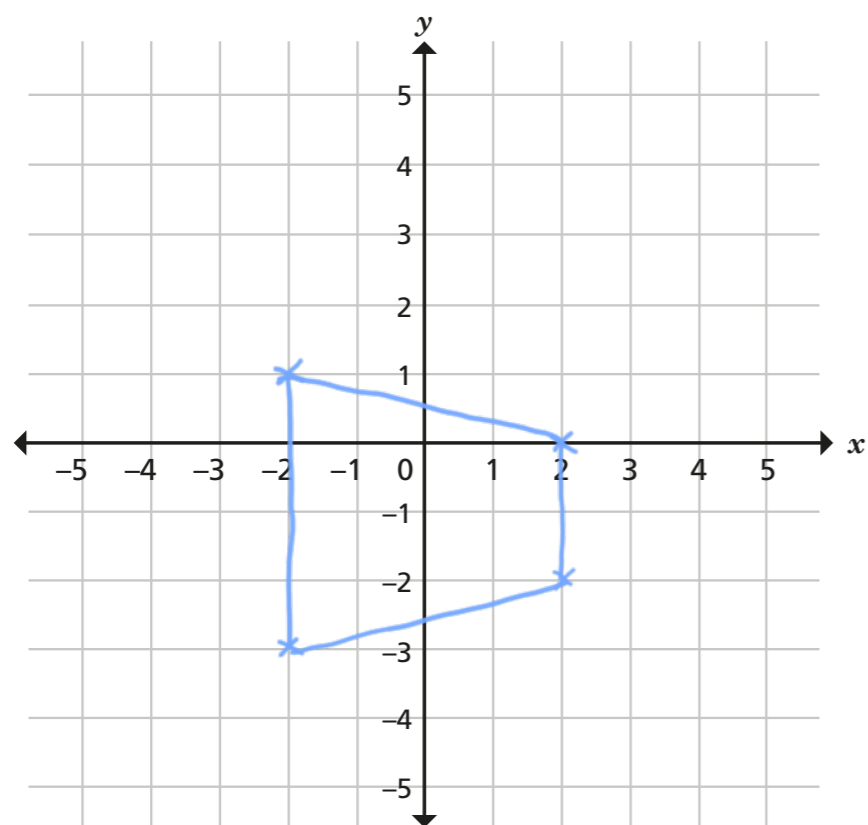_She has looked at the corners closest to each other not the corresponding corners on each shape._
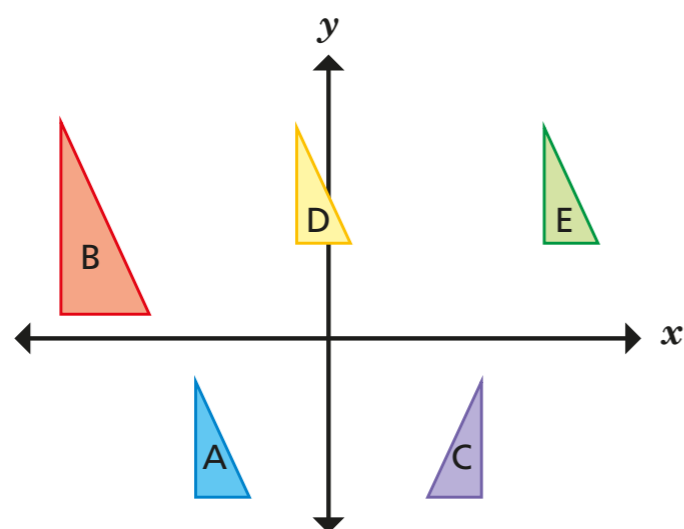
3 Translate the triangle 6 left.

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

It is translated 3 right and 4 down.

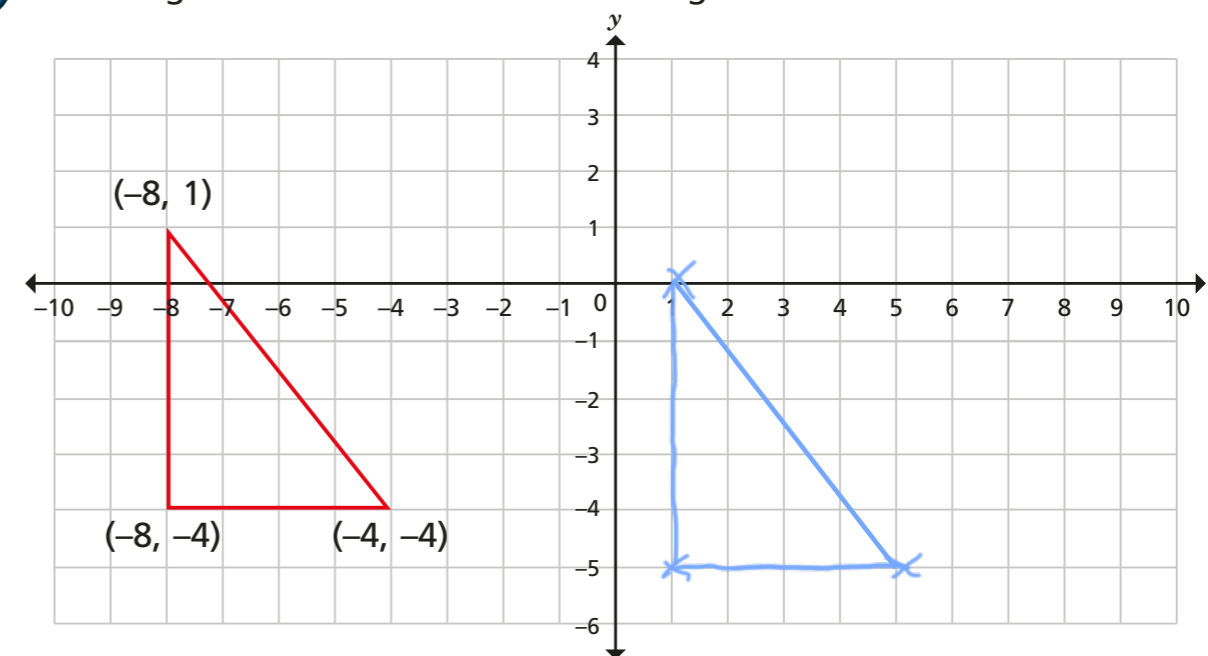Draw the quadrilateral on the grid in its **new** position.

5

Which triangles are translations of each other?

A, D and E

Explain why the others are not translations.
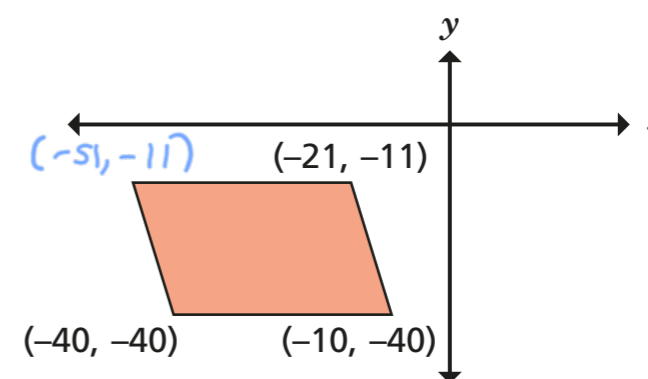
6 A triangle is drawn on the coordinate grid.

(–8, 1)

(–8, –4)   (–4, –4)

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

(–51, –11)   (–21, –11)

(–40, –40)   (–10, –40)

This parallelogram has been translated 50 left and 25 down.

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

(–1, 14)   (29, 14)   (10, –15)   (40, –15)