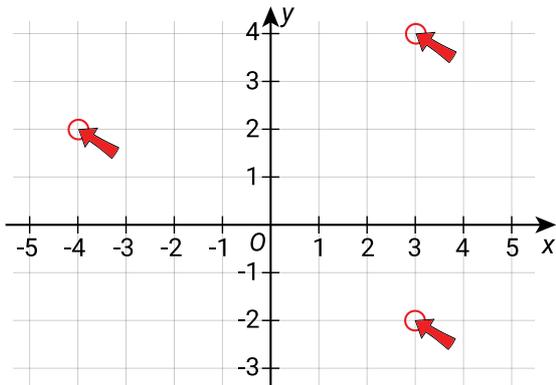


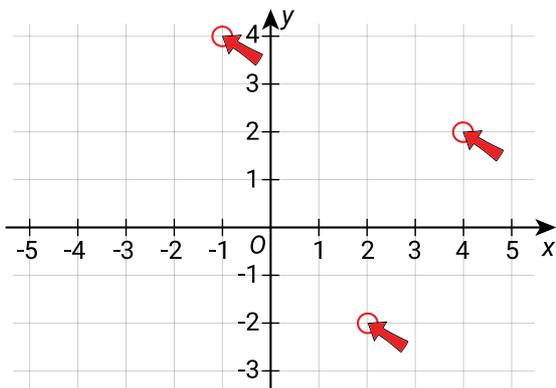
Year 8 Class 18 questions

Q1



Plot the points: (3,4) (3,-2) (-4,2)

Q2



Plot the points: (4,2) (2,-2) (-1,4)

Q3

Complete the table for $y = x + 3$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	3	4	5	6

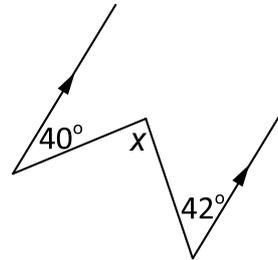
Q4

Complete the table for $y = x - 1$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	-1	0	1	2

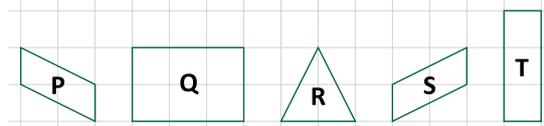
Q5

Find the value of x . °
82°



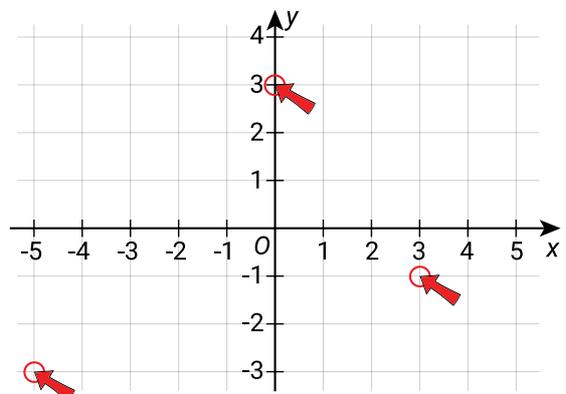
Q6

Find a pair of congruent shapes and decide which transformation could be used to map one onto the other.



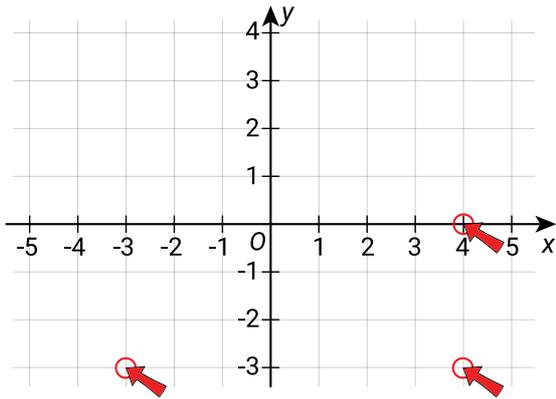
- P and S → rotation
- P and S → reflection
- Q and T → rotation
- Q and T → enlargement

Q7



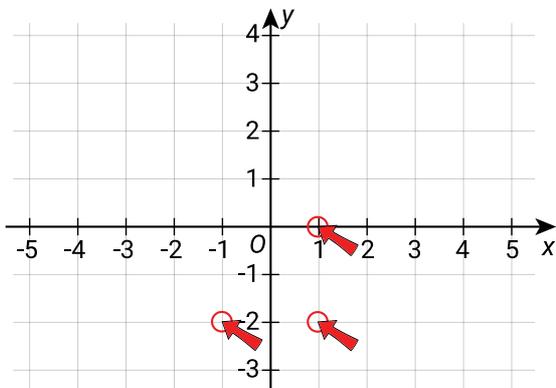
Plot the points: (0,3) (3,-1) (-5,-3)

Q8



Plot the points: (4,0) (4,-3) (-3,-3)

Q9



Plot the points: (1,0) (1,-2) (-1,-2)

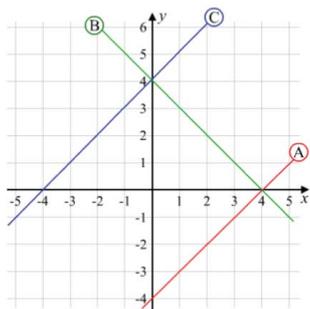
Q10

Complete the table for $y = 4 - x$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

4 3 2 1

Which is the graph of $y = 4 - x$?



- A
 B
 C

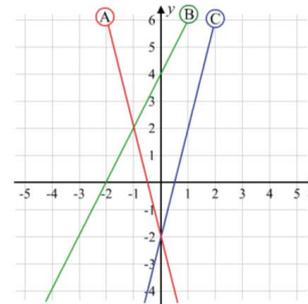
Q11

Complete the table for $y = 4x - 2$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

-2 2 6 10

Which is the graph of $y = 4x - 2$?



- A
 B
 C

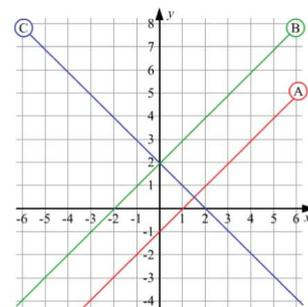
Q12

Complete the table for $y = x - 1$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

-1 0 1 2

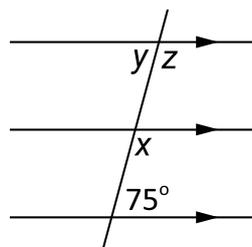
Which is the graph of $y = x - 1$?



- A
 B
 C

Q13

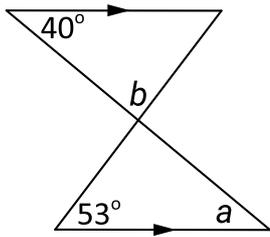
Find the value of x , y and z .



- $x = \text{}^\circ$
 105°
 $y = \text{}^\circ$
 75°
 $z = \text{}^\circ$
 105°

Q14

Find the value of a and b .



$$a = \boxed{}^\circ$$

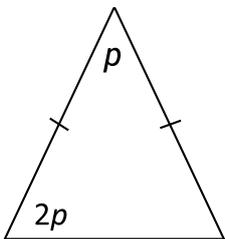
40°

$$b = \boxed{}^\circ$$

87°

Q15

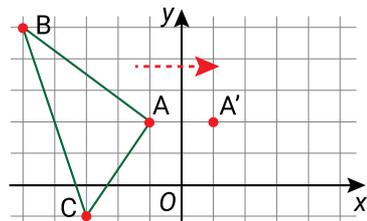
Find the value of p . $\boxed{}^\circ$



36

Q16

Find the coordinates of the image points when the shape is reflected over the y -axis.



$$A \rightarrow A'(1, 2)$$

$$B \rightarrow B'(\boxed{})$$

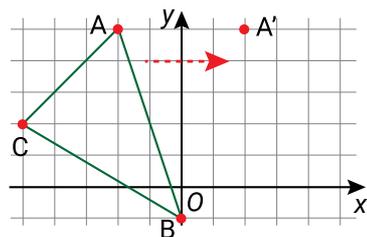
5, 5

$$C \rightarrow C'(\boxed{})$$

3, -1

Q17

Find the coordinates of the image points when the shape is reflected over the y -axis.



$$A \rightarrow A'(2, 5)$$

$$B \rightarrow B'(\boxed{})$$

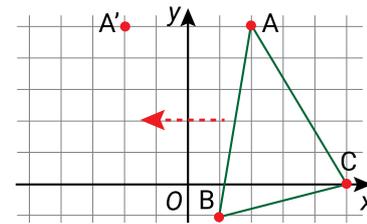
0, -1

$$C \rightarrow C'(\boxed{})$$

5, 2

Q18

Find the coordinates of the image points when the shape is reflected over the y -axis.



$$A \rightarrow A'(-2, 5)$$

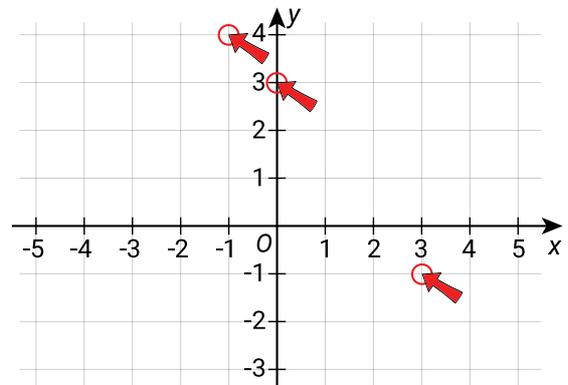
$$B \rightarrow B'(\boxed{})$$

-1, -1

$$C \rightarrow C'(\boxed{})$$

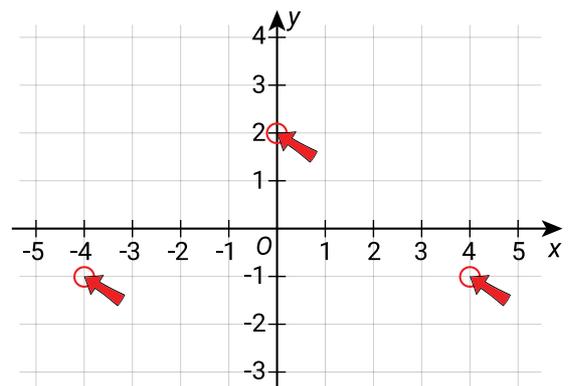
-5, 0

Q19



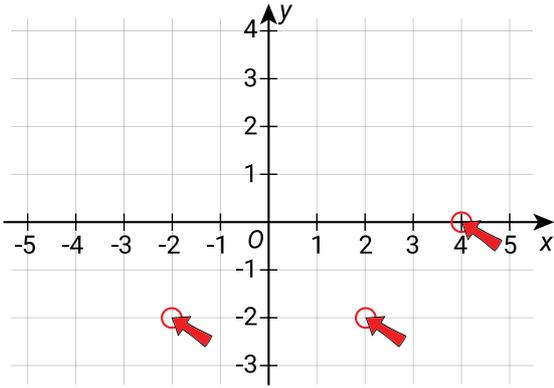
Plot the points: (0,3) (3,-1) (-1,4)

Q20



Plot the points: (0,2) (4,-1) (-4,-1)

Q21



Plot the points: (4,0) (2,-2) (-2,-2)

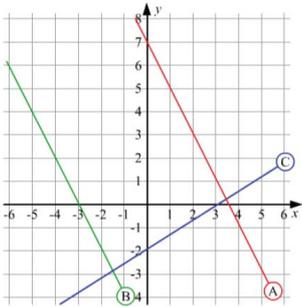
Q22

Complete the table for $y + 2x = 7$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

7 5 3 1

Which is the graph of $y + 2x = 7$?



- A
 B
 C

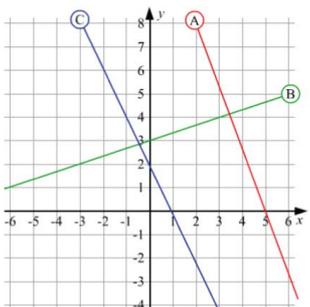
Q23

Complete the table for $y = \frac{x}{3} + 3$.

x	-3	0	3	6
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

2 3 4 5

Which is the graph of $y = \frac{x}{3} + 3$?



- A
 B
 C

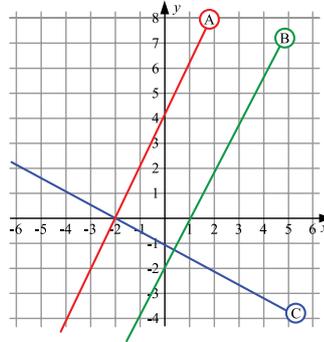
Q24

Complete the table for $y = 2(x - 1)$.

x	-1	0	1	2
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

-4 -2 0 2

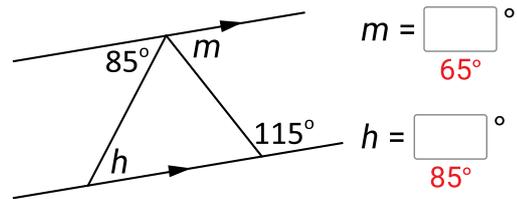
Which is the graph of $y = 2(x - 1)$?



- A
 B
 C

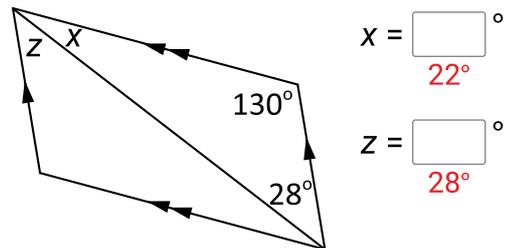
Q25

Find the value of m and h .



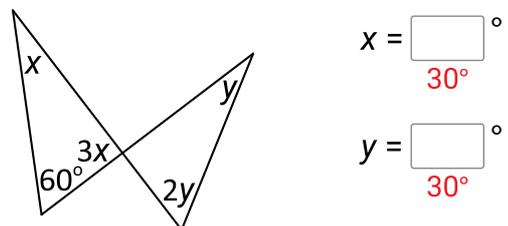
Q26

Find the value of x and z .



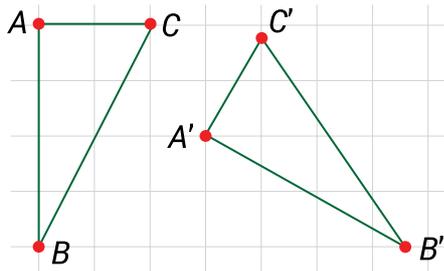
Q27

Find the value of x and y .



Q28

Two congruent triangles are shown.



What transformation has been used?

- reflection rotation translation

Use the grid to find the length of AC .

- 2 units 3 units 4 units

What is the length of $A'B'$?

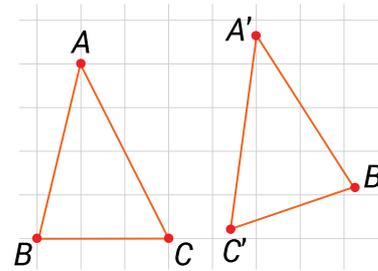
- 3 units 3.5 units 4 units

What is the area of $\triangle A'B'C'$?

- 4 units² 5 units² 6 units²

Q29

Two congruent triangles are shown.



What transformation has been used?

- reflection rotation translation

Use the grid to find the length of BC .

- 3 units 4 units 5 units

What is the length of $B'C'$?

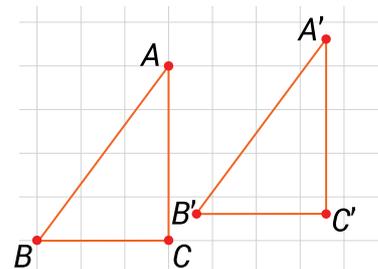
- 2.5 units 3 units 4 units

What is the area of $\triangle A'B'C'$?

- 4 units² 5 units² 6 units²

Q30

Two congruent triangles are shown.



What transformation has been used?

- reflection rotation translation

Use the grid to find the length of BC .

- 3 units 4 units 5 units

What is the length of $A'C'$?

- 3 units 3.5 units 4 units

What is the area of $\triangle A'B'C'$?

- 4 units² 6 units² 8 units²