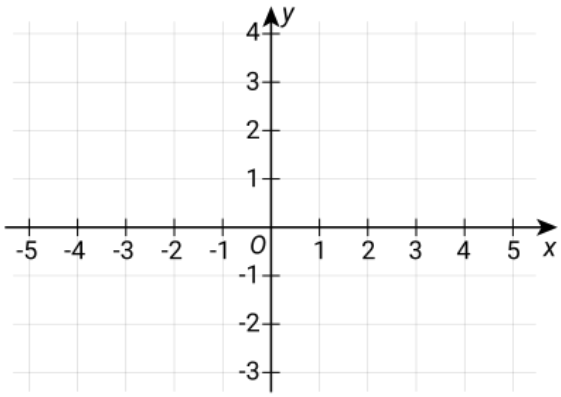
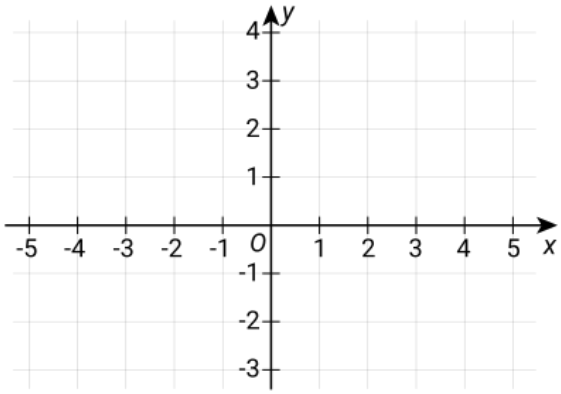
Year 8 Class 18 questions

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				

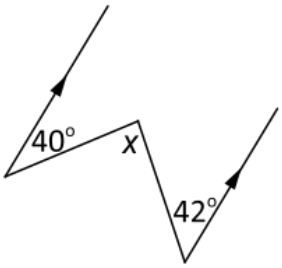
Q4

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

x	0	1	2	3
y				

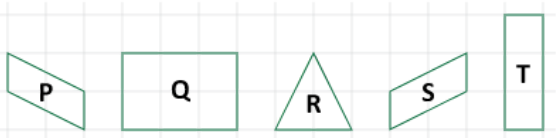
Q5

Find the value of x. °



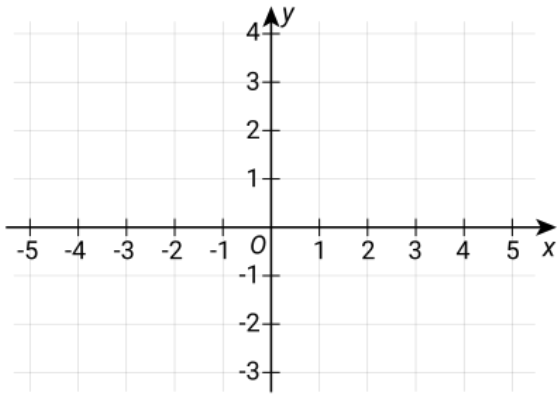
Q6

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



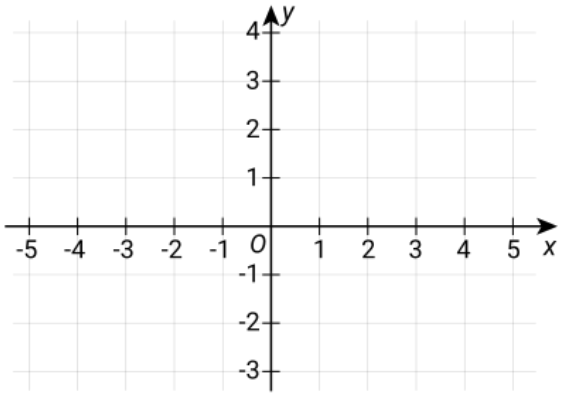
- ○ P and S → rotation
- ○ P and S → reflection
- ○ Q and T → rotation
- ○ Q and T → enlargement

Q7



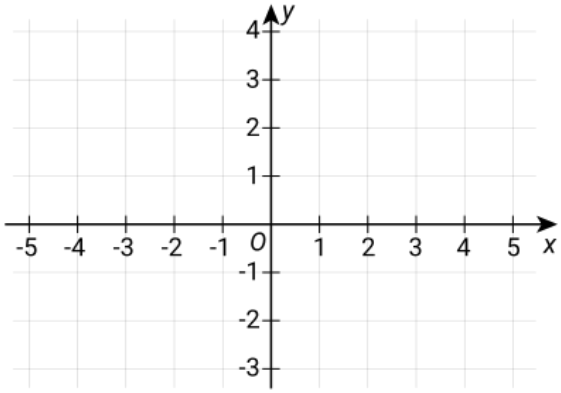
Plot the points: (0,3) (3,-1) (-5,-3)

Q8



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

Q9



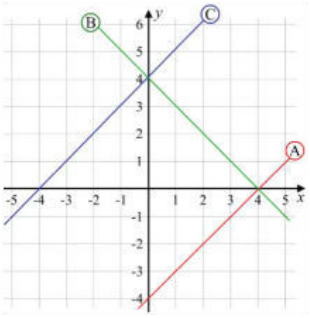
Plot the points: (1,0) (1,-2) (-1,-2)

Q10

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

x	0	1	2	3
y				

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



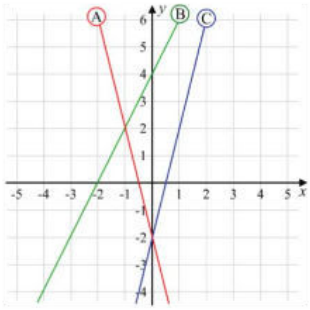
○ A
○ B
○ C

Q11

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

x	0	1	2	3
y				

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



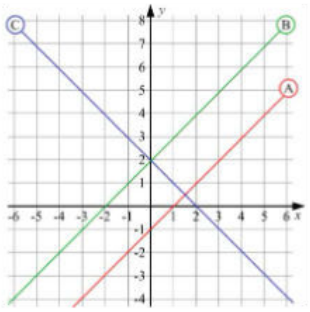
○ A
○ B
○ C

Q12

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

x	0	1	2	3
y				

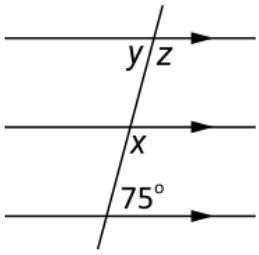
Which is the graph of $y = x - 1$?



○ A
○ B
○ C

Q13

Find the value of x, y and z.



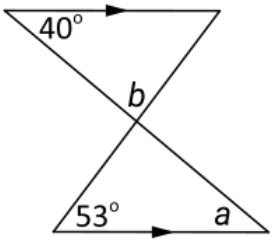
$x =$ ☐ °

$y =$ ☐ °

$z =$ ☐ °

Q14

Find the value of *a* and *b*.

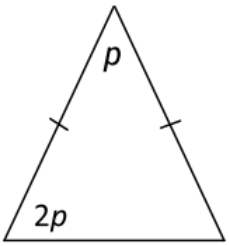


$a =$ ☐ °

$b =$ ☐ °

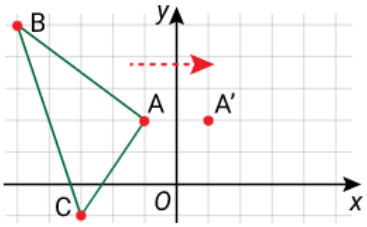
Q15

Find the value of *p*. ☐ °



Q16

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



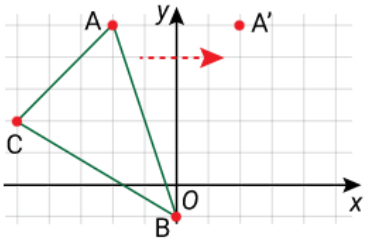
A → A'(1,2)

B → B'(☐)

C → C'(☐)

Q17

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



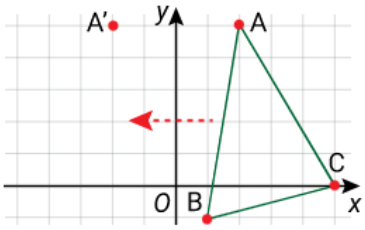
A → A'(2,5)

B → B'(☐)

C → C'(☐)

Q18

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

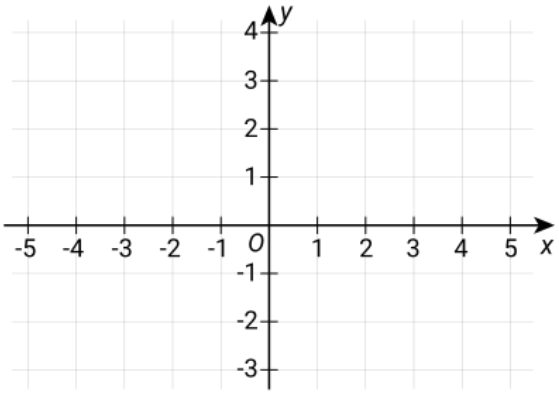


A → A'(-2,5)

B → B'(☐)

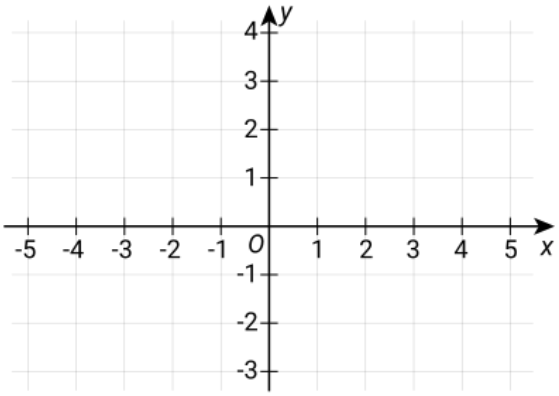
C → C'(☐)

Q19



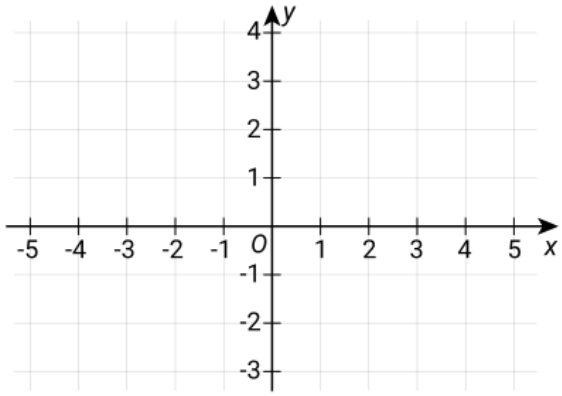
Plot the points: (0,3) (3,-1) (-1,4)

Q20



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

Q21



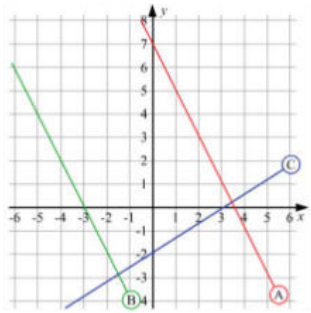
Plot the points: (4,0) (2,-2) (-2,-2)

Q22

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

x	0	1	2	3
y				

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



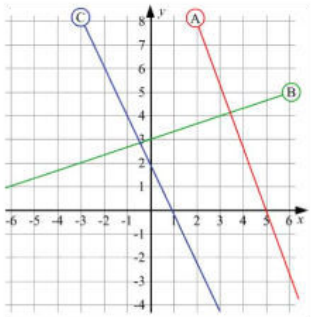
○ A
○ B
○ C

Q23

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

x	-3	0	3	6
y				

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



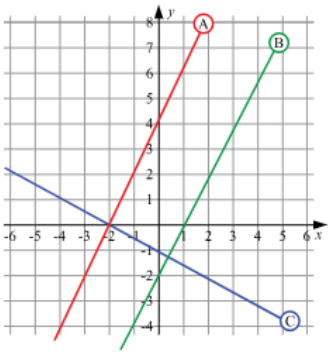
○ A
○ B
○ C

Q24

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

x	-1	0	1	2
y				

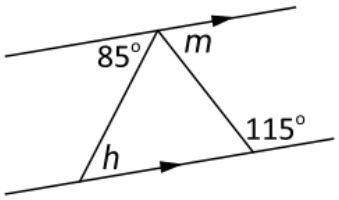
Which is the graph of $y = 2(x-1)$?



○ A
○ B
○ C

Q25

Find the value of m and h.

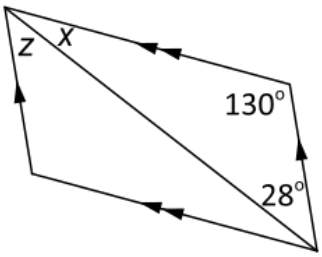


$m =$ ☐ °

$h =$ ☐ °

Q26

Find the value of x and z.

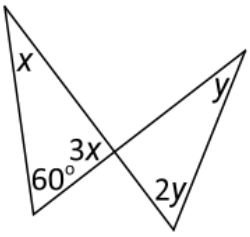


$x =$ ☐ °

$z =$ ☐ °

Q27

Find the value of x and y.

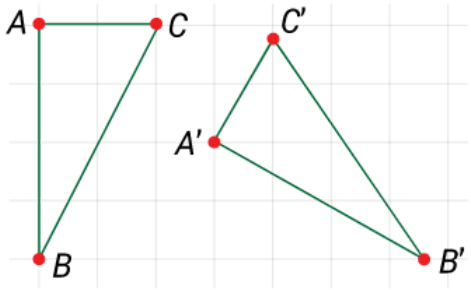


$x =$ ☐ °

$y =$ ☐ °

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 $A'B'$?

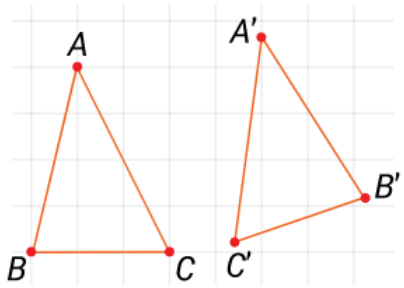
○ 3 units ○ 3.5 units ○ 4 units

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

○ 4 units^2 ○ 5 units^2 ○ 6 units^2

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 $B'C'$?

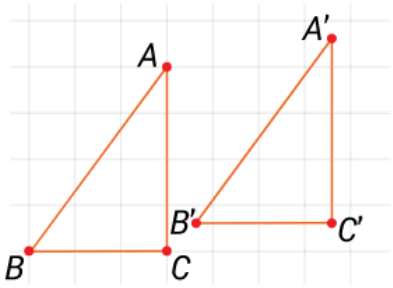
○ 2.5 units ○ 3 units ○ 4 units

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

○ 4 units^2 ○ 5 units^2 ○ 6 units^2

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 $\Delta A'B'C'$?

○ 4 units^2 ○ 6 units^2 ○ 8 units^2