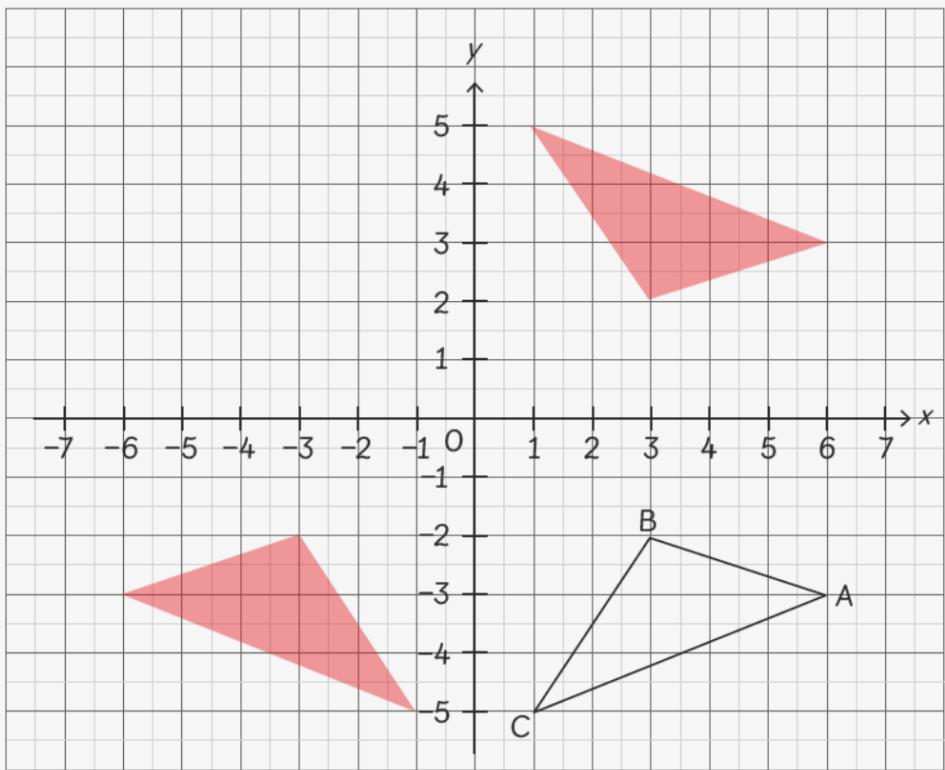


Worksheet 10

Using Algebra to Describe Movements

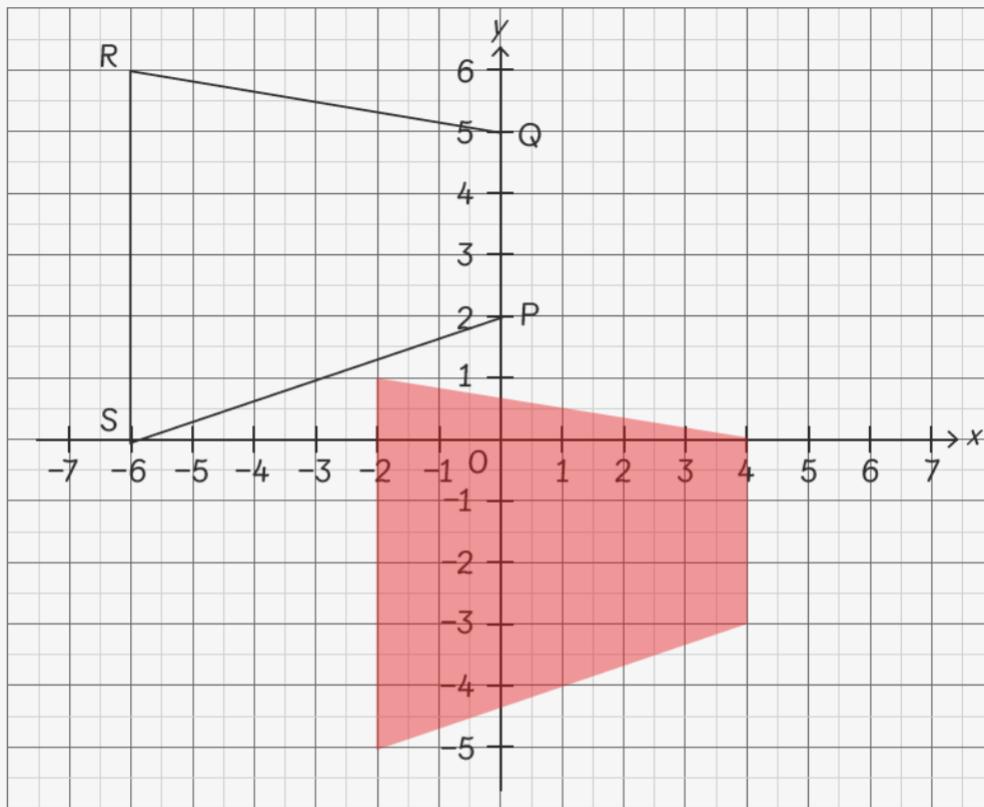
- 1 Triangle ABC is reflected in the x -axis and in the y -axis.



Given that point X is any point on the triangle, complete the table.

point	coordinates	after reflection in x -axis	after reflection in y -axis
A	(6, -3)	(6, 3)	(-6, -3)
B	(3, -2)	(3, 2)	(-3, -2)
C	(1, -5)	(1, 5)	(-1, -5)
X	(x, y)	$(x, -y)$	$(-x, y)$

- 2 Trapezium PQRS is translated.



Given that point Y is any point on the trapezium, complete the table.

point	coordinates	after translation
P	(0, 2)	(4, -3)
Q	(0, 5)	(4, 0)
R	(-6, 6)	(-2, 1)
S	(-6, 0)	(-2, -5)
Y	(x, y)	$(x + 4, y - 5)$