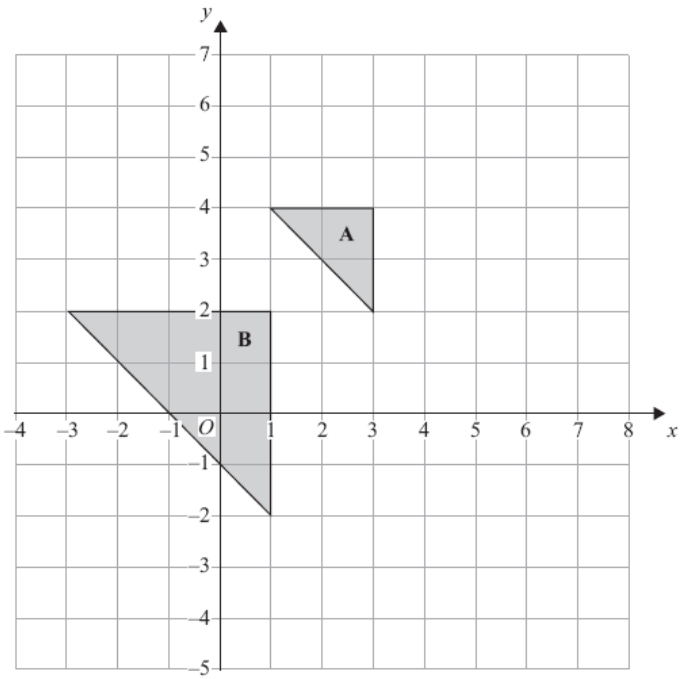
1.



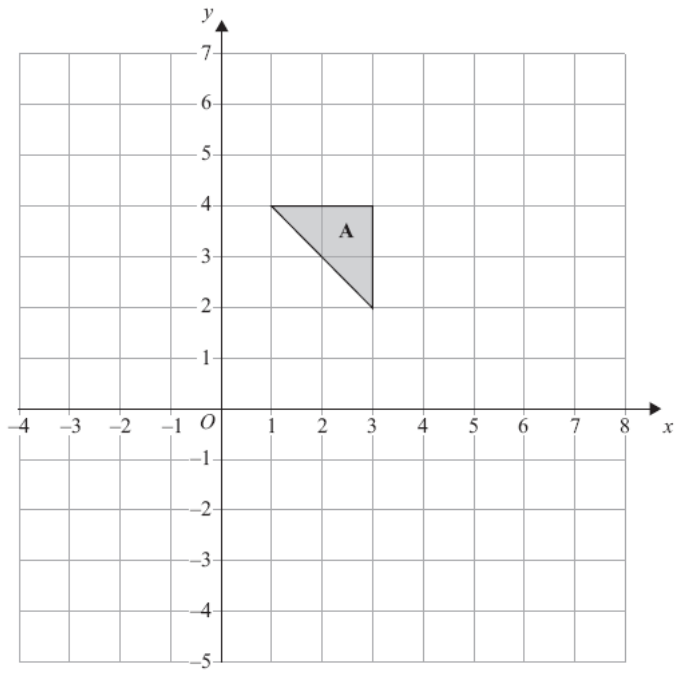
Triangle **A** and triangle **B** are drawn on the grid.

(a) Describe fully the single transformation which maps triangle **A** onto triangle **B**.

.....

.....

(3)

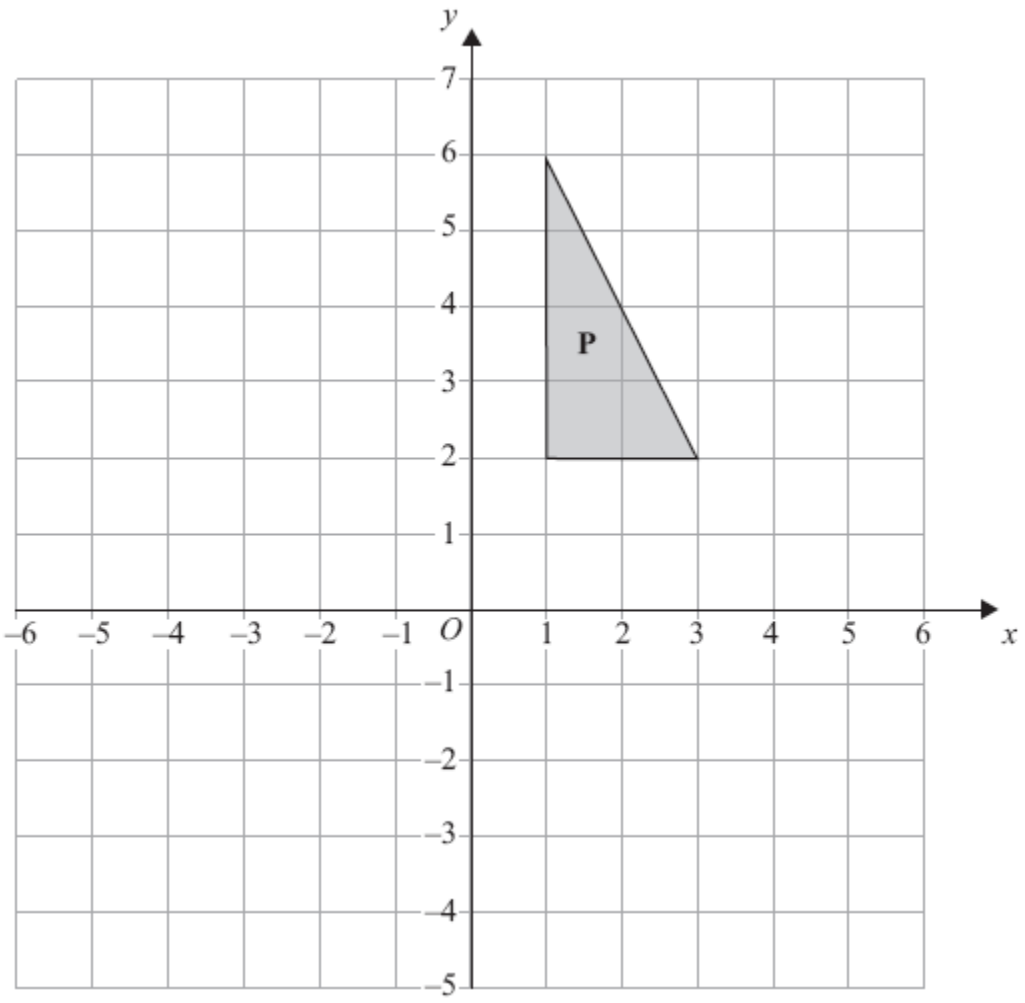


(b) Reflect triangle **A** in the line $x = 4$

(2)

(5 marks)

2.



Triangle **P** is drawn on a coordinate grid.

The triangle **P** is reflected in the line $x = -1$ and then reflected in the line $y = 1$ to give triangle **Q**.

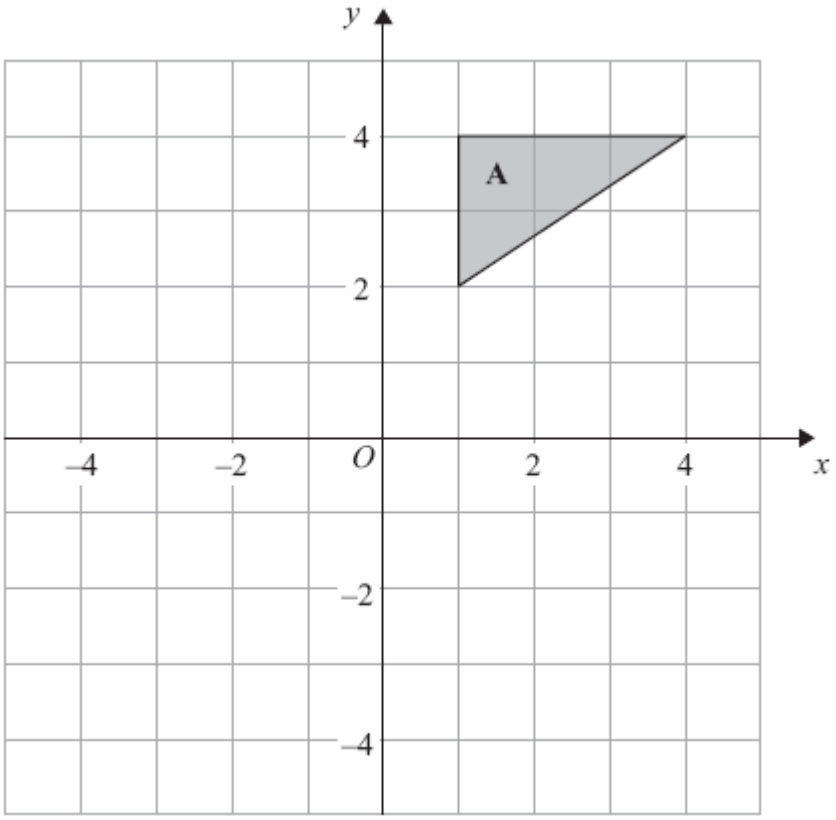
Describe fully the single transformation which maps triangle **P** onto triangle **Q**.

.....

.....

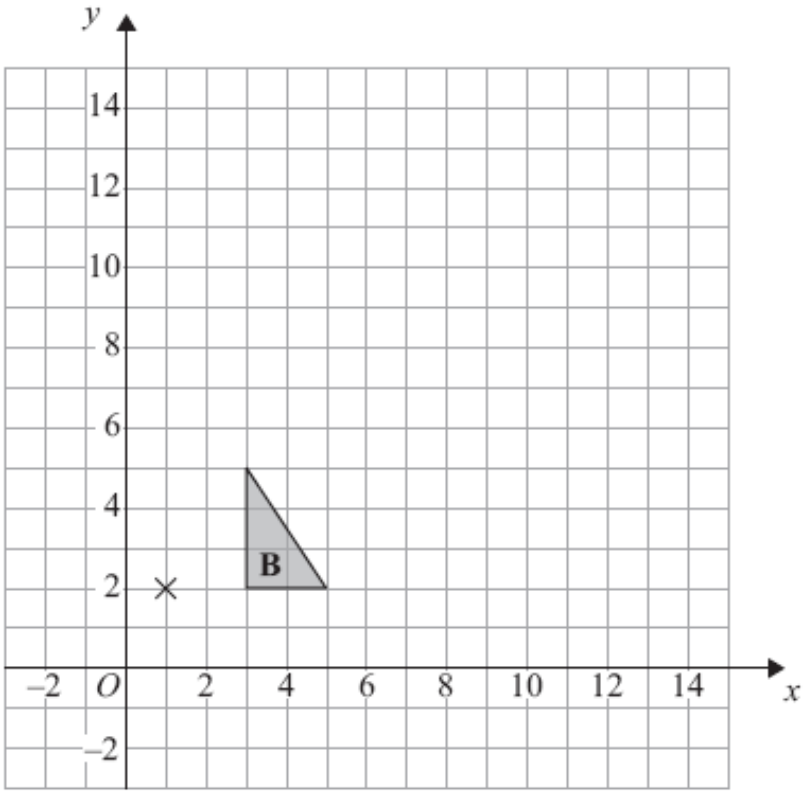
(3 marks)

3.



(a) Rotate triangle **A** 90° clockwise, centre *O*.

(2)

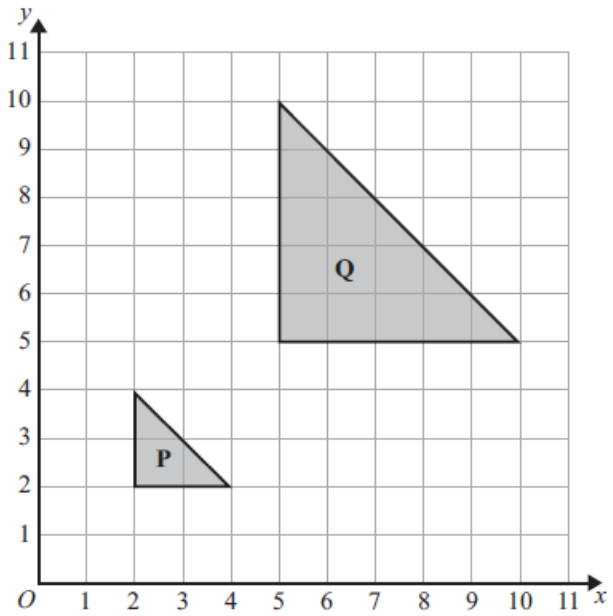


(b) Enlarge triangle **B** by scale factor 3, centre (1, 2).

(3)

(5 marks)

4.



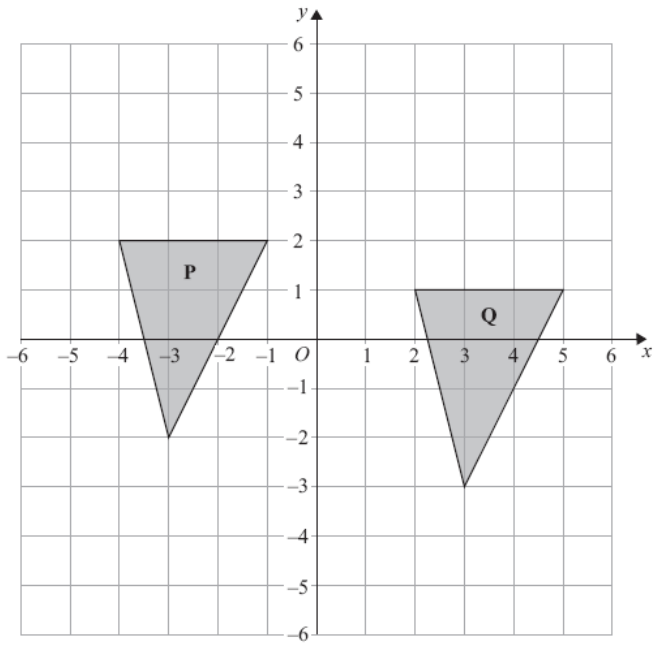
Describe fully the single transformation that maps shape **P** onto shape **Q**.

.....

.....

(3 marks)

5.



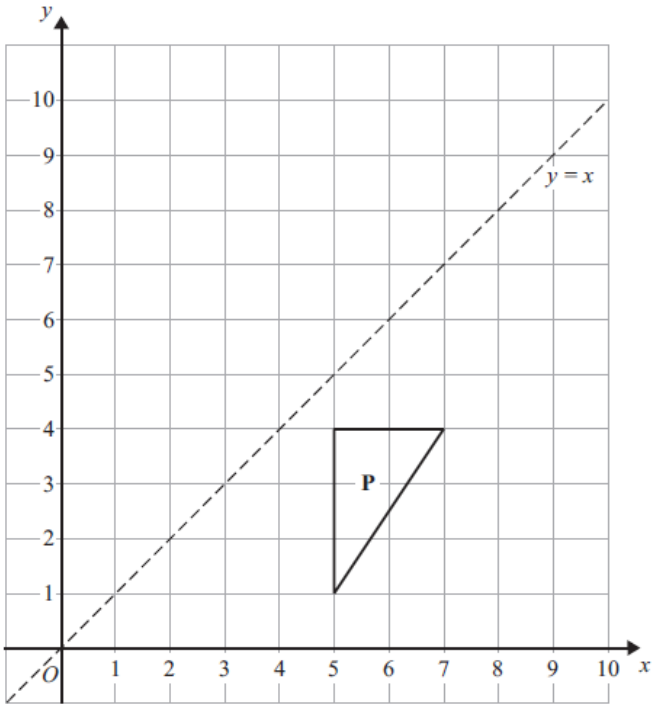
Describe fully the single transformation that maps triangle **P** onto triangle **Q**.

.....

.....

(3 marks)

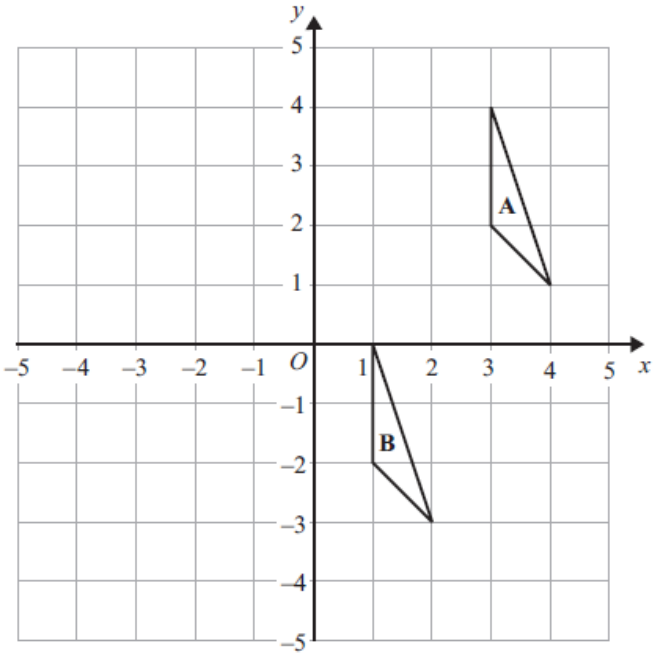
6. (a)



Reflect shape **P** in the line $y = x$

(2)

(b)



Describe fully the single transformation that maps triangle **A** onto triangle **B**.

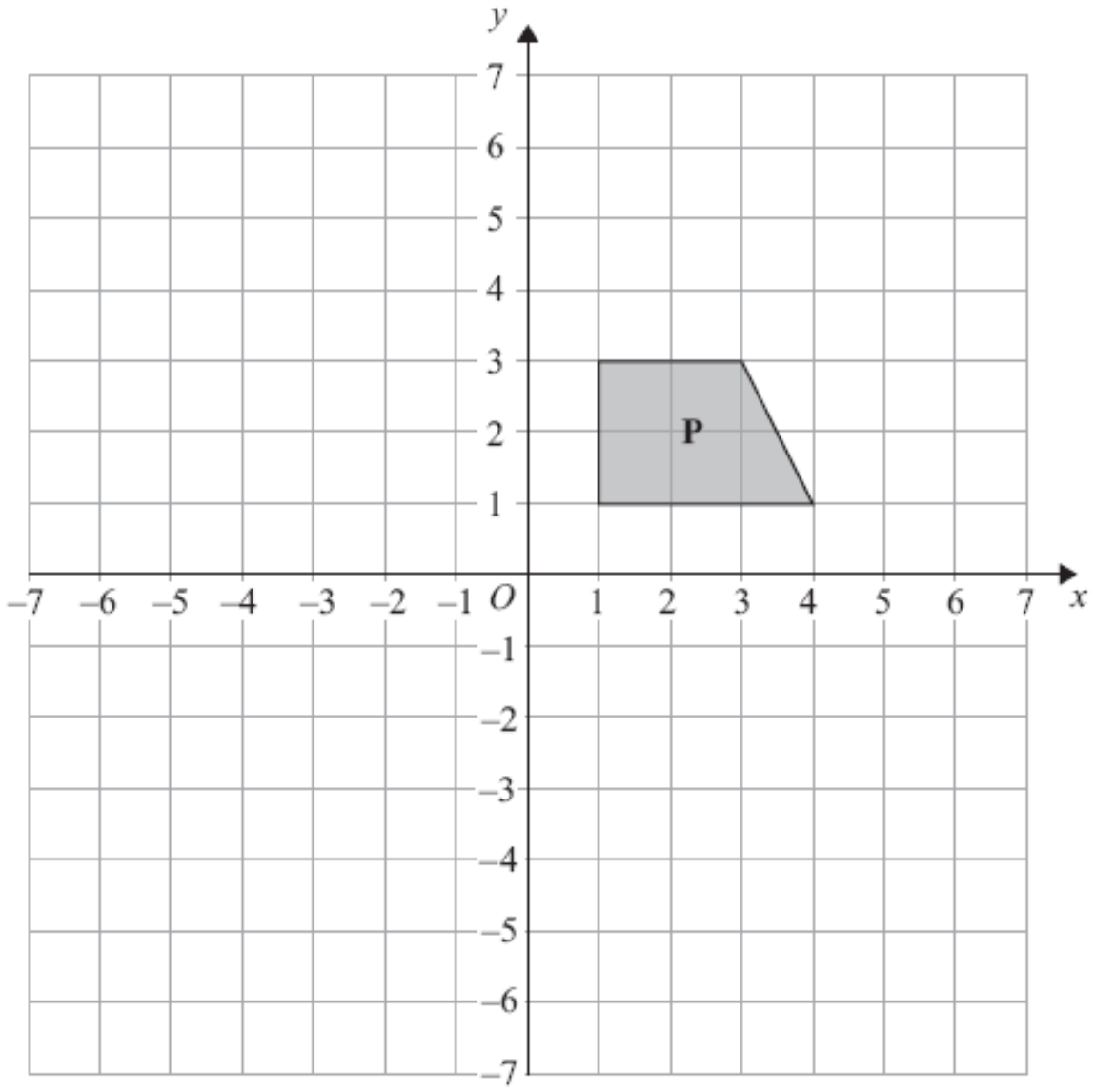
.....

.....

(2)

(4 marks)

7.



Shape **P** is reflected in the line $x = -1$ to give shape **Q**.

Shape **Q** is reflected in the line $y = 0$ to give shape **R**.

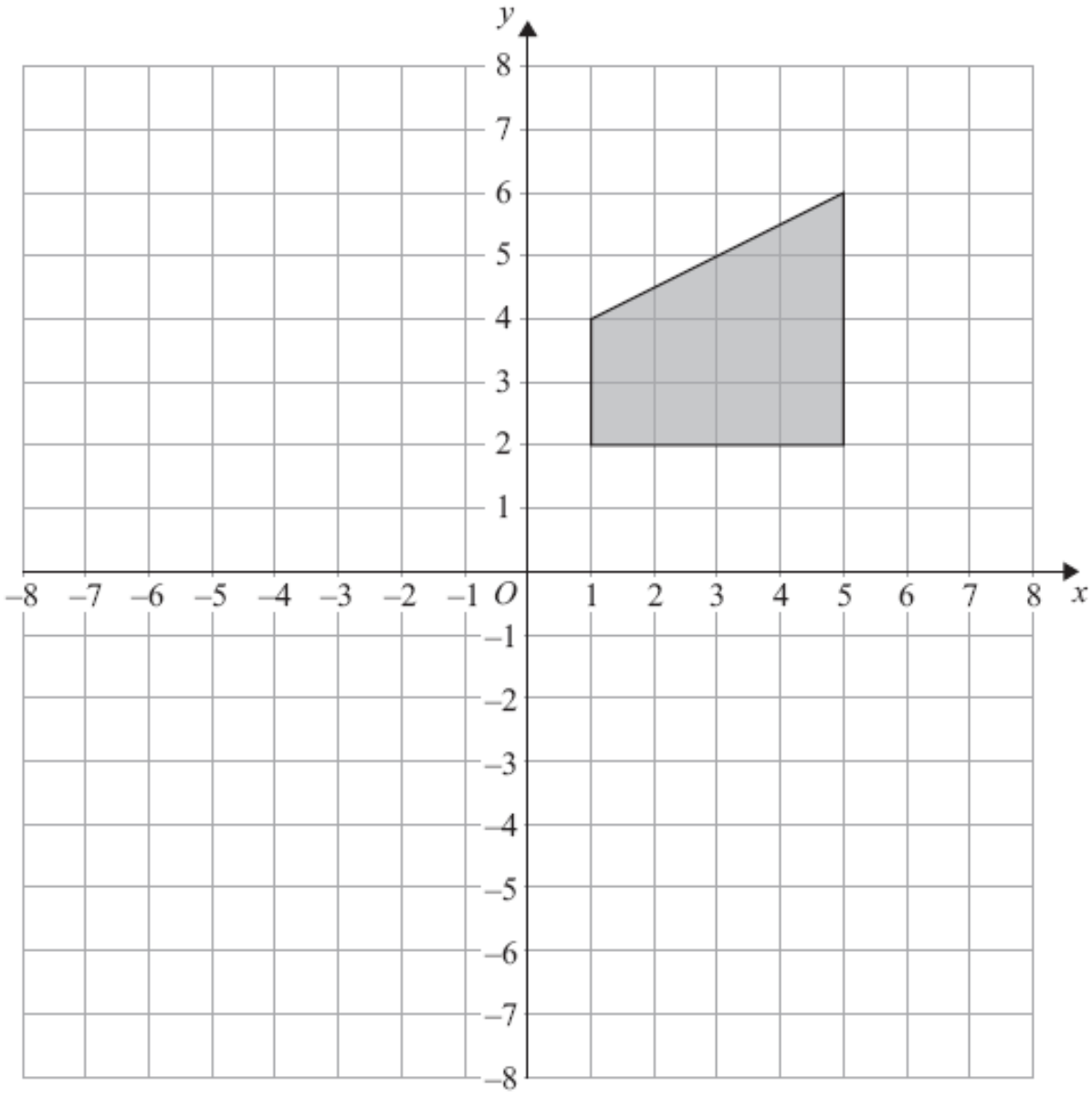
Describe fully the **single** transformation that maps shape **P** onto shape **R**.

.....

.....

(3 marks)

8.



Rotate the shaded shape 90^0 clockwise about the point (1, -1).

(3 marks)