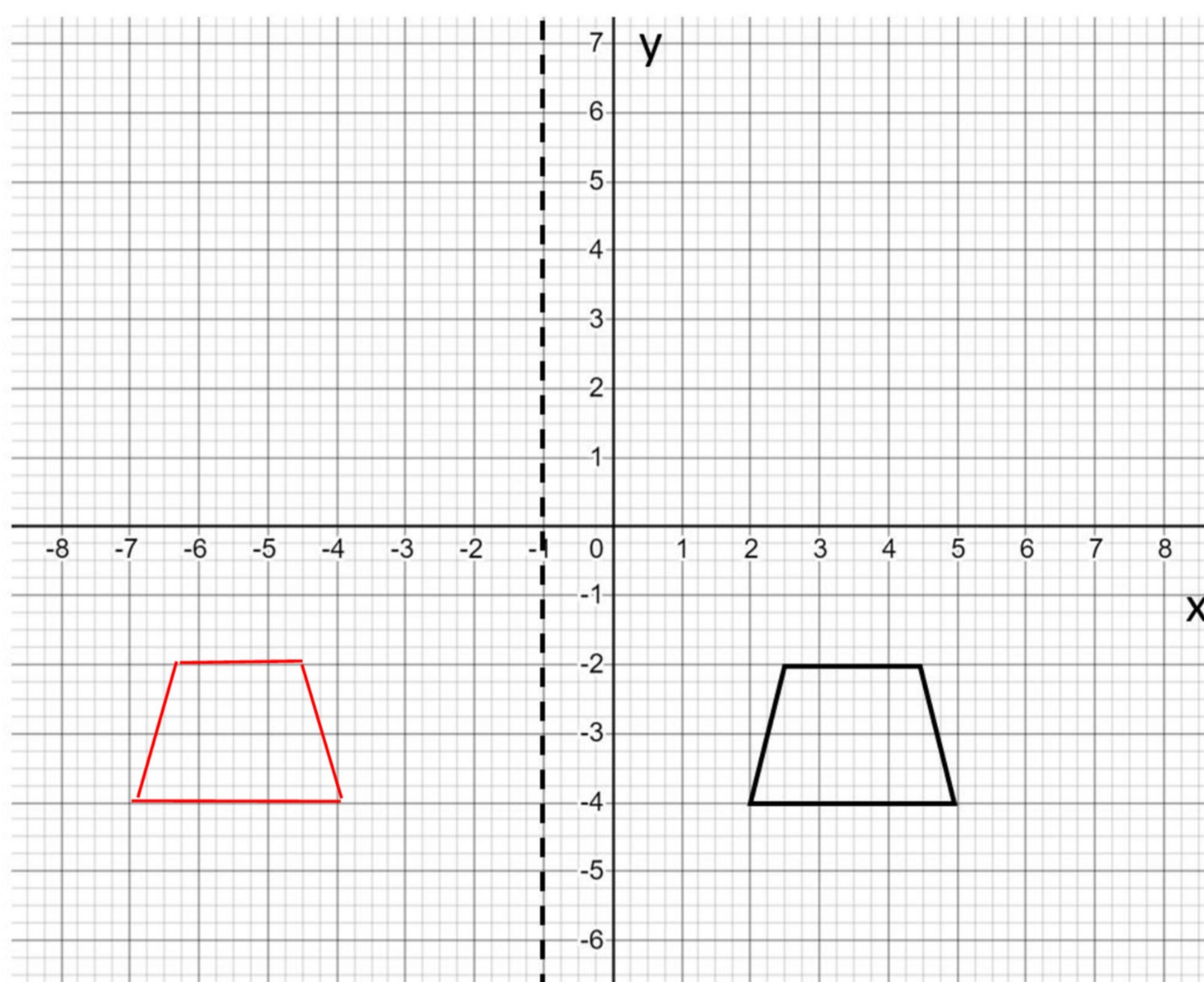




Reflections Exam Practice

Q1. Reflect the shape in the dotted mirror line shown on the grid.

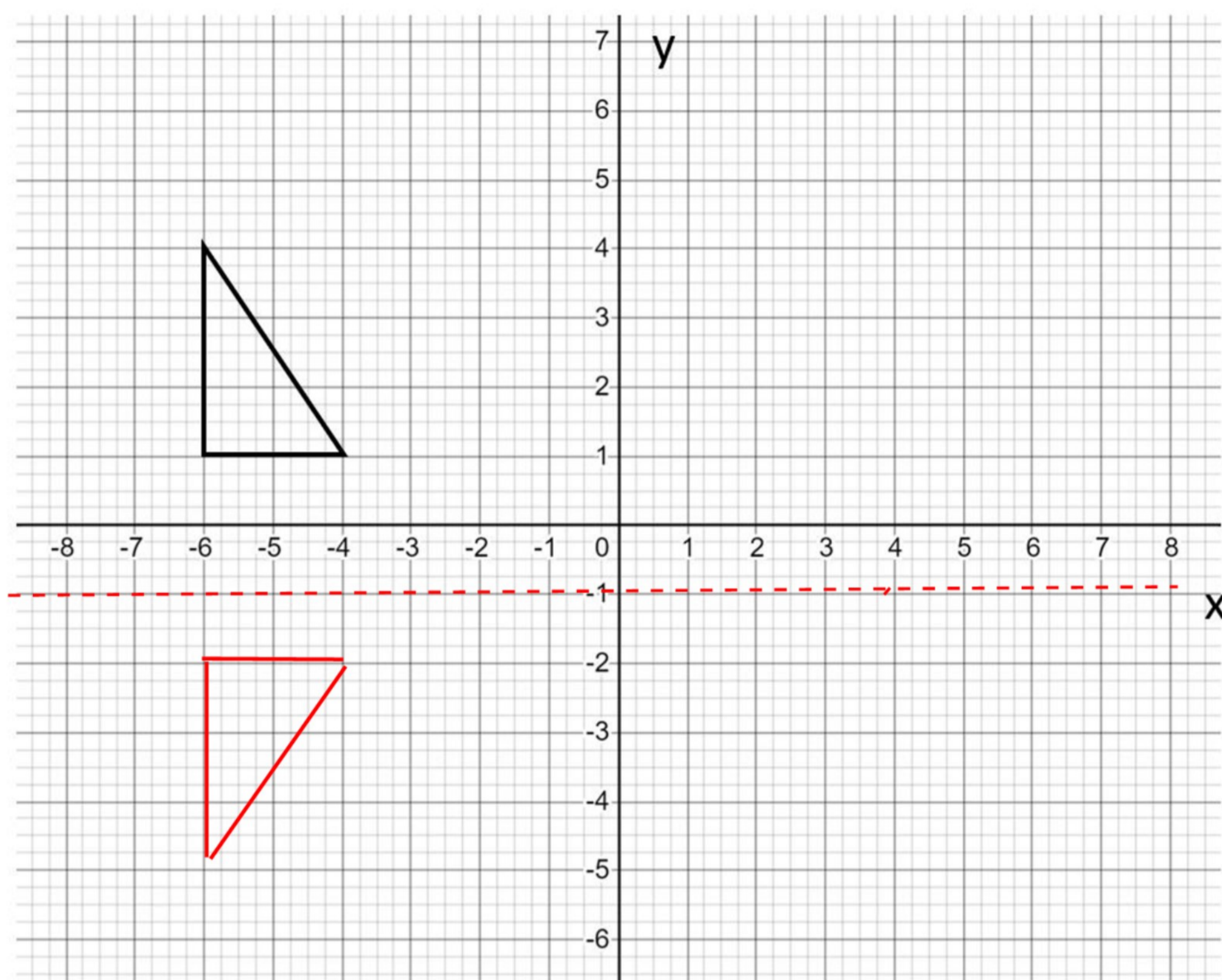


Answer: _____

(2 marks)



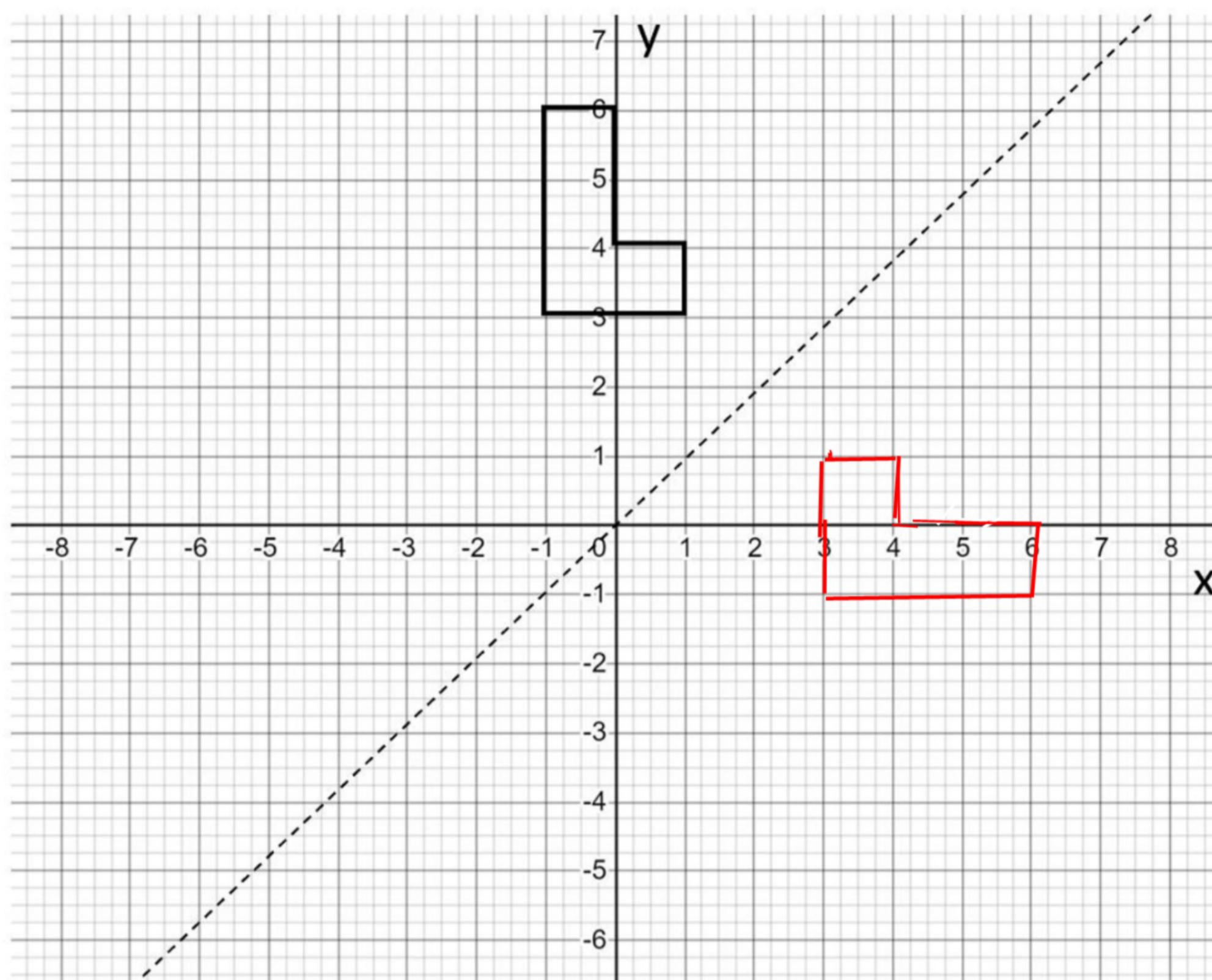
Q2. Reflect the shape in the line $y = -1$ on the grid below.



Answer: _____
(2 marks)



Q3. Reflect the shape in the mirror line shown on the grid.

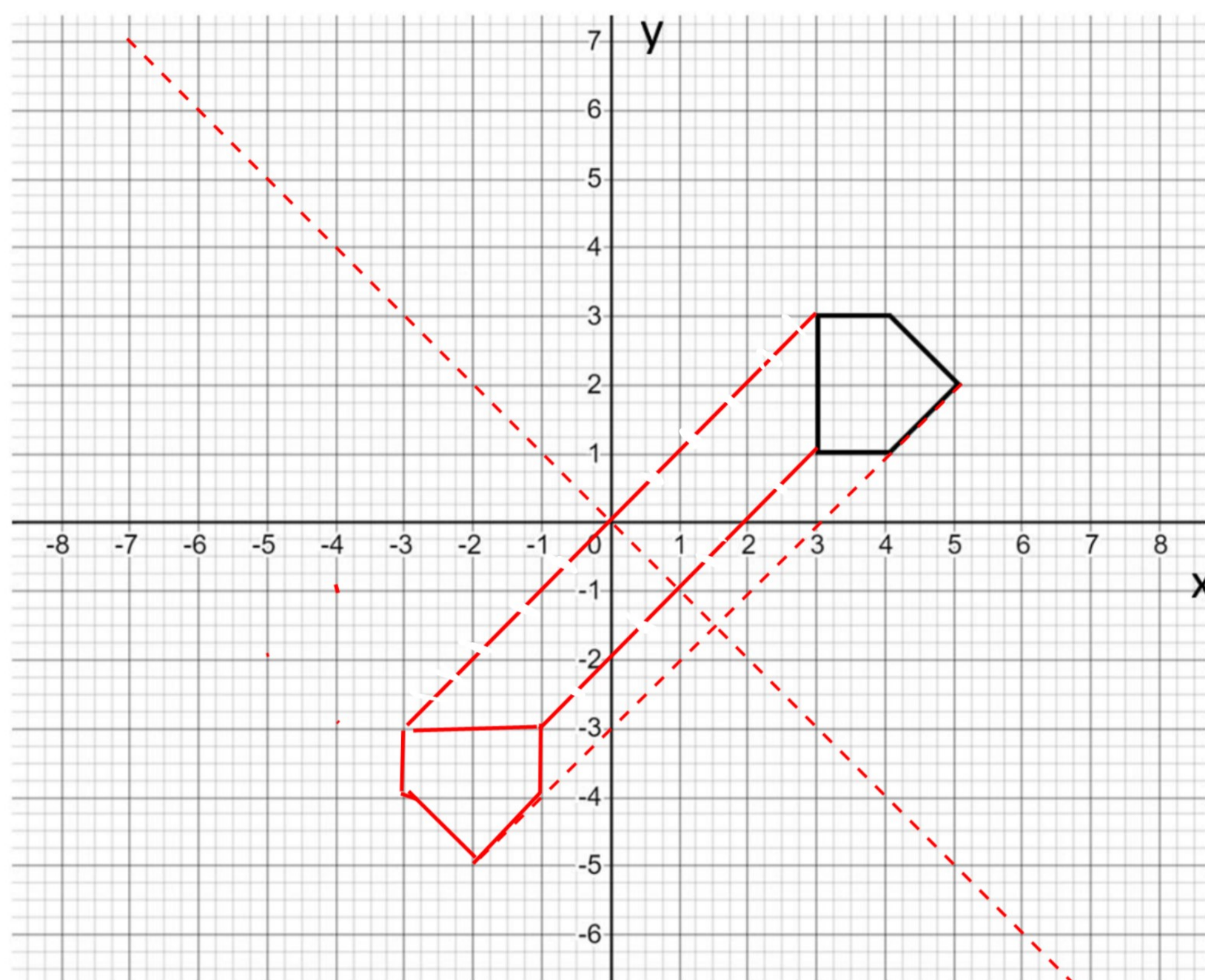


Answer: _____

(2 marks)



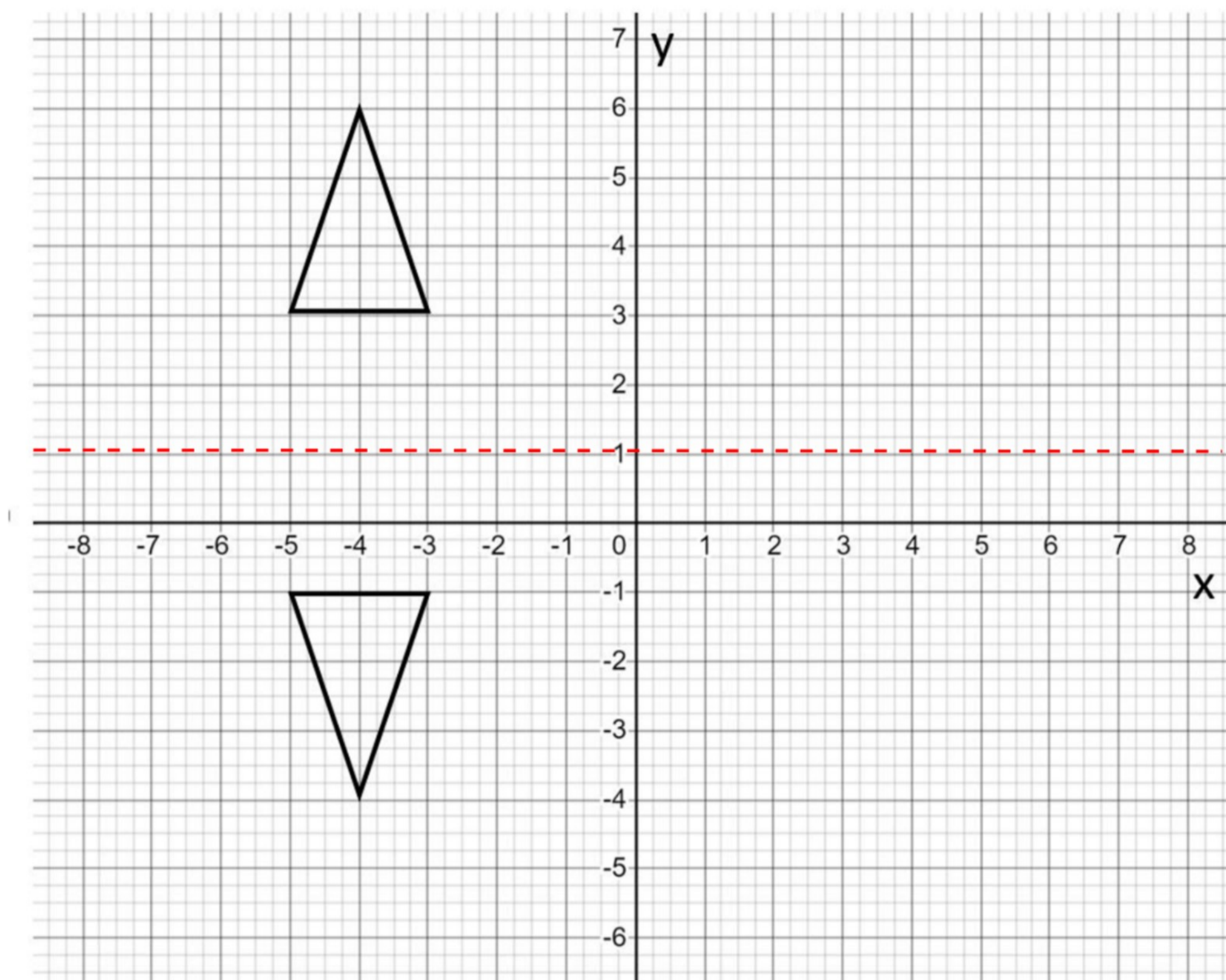
Q4. Reflect the shape in the line $y = -x$ shown on the grid below.



Answer: _____
(2 marks)



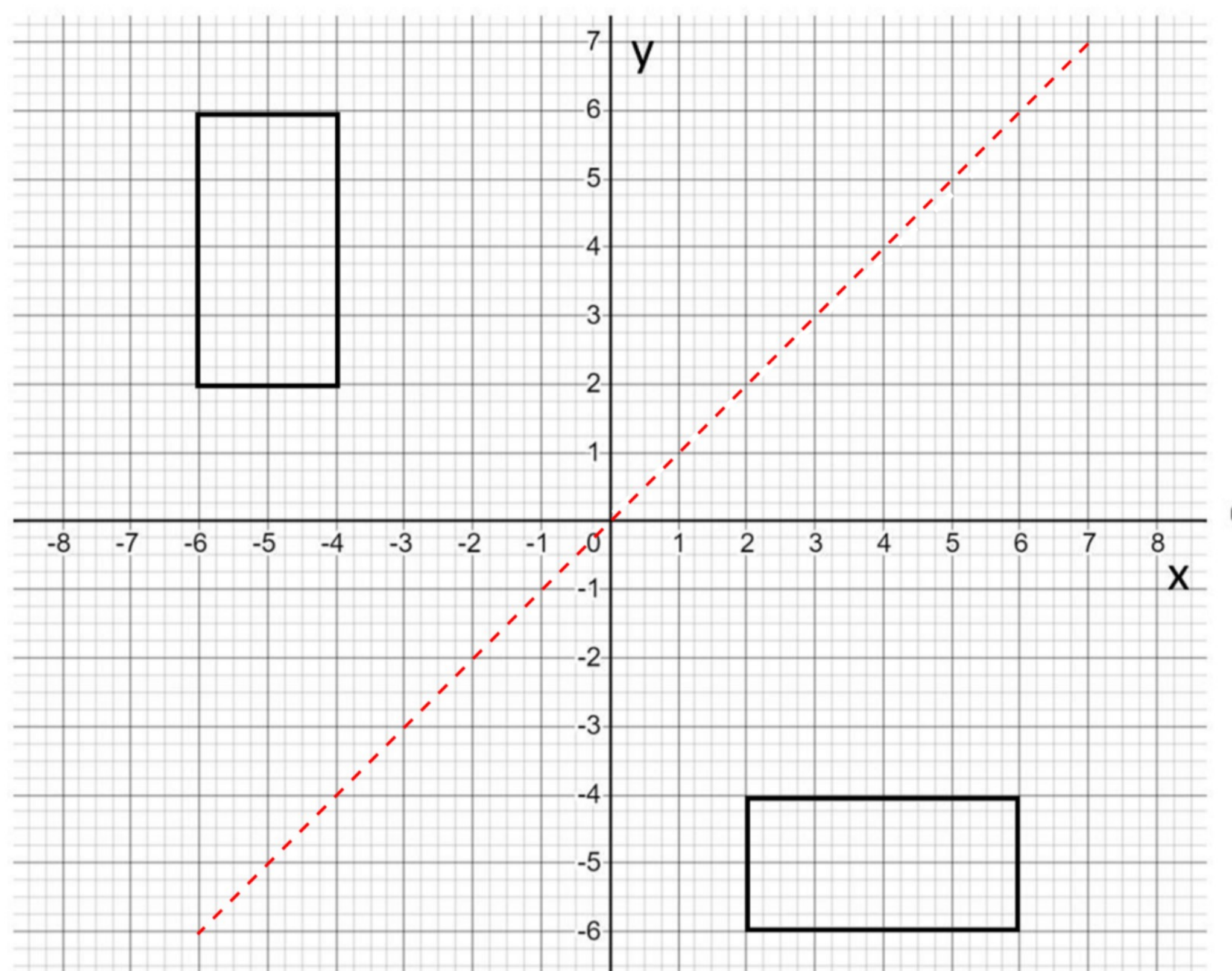
Q5. Describe fully the transformation which takes shape A to shape B.



Answer: Reflection in $y = 1$
(3 marks)



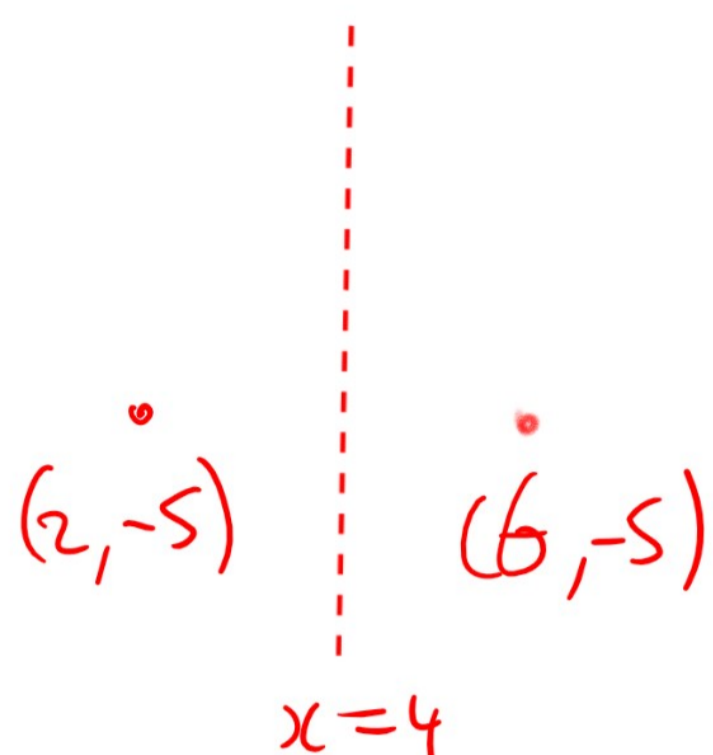
Q6. Describe fully the transformation which takes shape D to shape C.



Answer: Reflection in $y=x$
(3 marks)

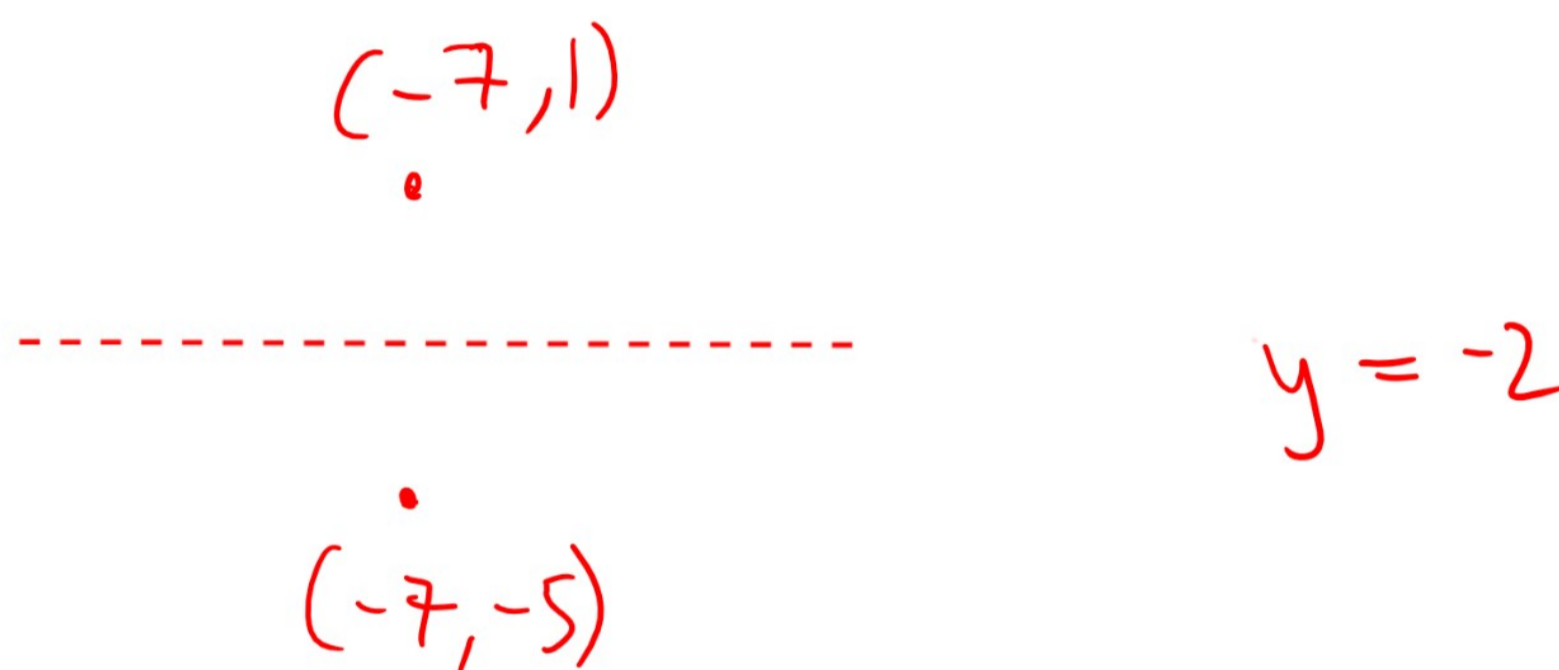


Q7. The point $P = (2, -5)$ is reflected in the line $x = 4$ to obtain point Q. Write down the co-ordinates of the point Q.



Answer: $(6, -5)$
(2 marks)

Q8. The point $S = (-7, 1)$ is reflected in the line $y = -2$ to obtain point T. Write down the co-ordinates of the point T.



Answer: $(-7, -5)$
(2 marks)

Q9. A point $C = (a, 0)$, where a is some positive number, is reflected in the line L to obtain point $D = (-3a, 0)$. Write down the equation of the line L.

$$x = -a$$

Answer: $x = -a$
(1 mark)



Q10. ABC is a right-angled triangle with co-ordinates $A = (-12, 3)$, $B = (-12, 8)$, and $C = (3, 3)$. The triangle is then reflected in the line $y = -4$ to obtain shape PQR. State the co-ordinates of PQR.

$$P = (-12, -11)$$

$$Q = (-12, -16)$$

$$R = (3, -11)$$

Answer: $P(-12, -11)$
 $Q = (-12, -16)$ and
 $R = (3, -11)$
(2 marks)

Q11. The point $P = (5, -9)$ is reflected in the line $y = x$ to obtain point Q. State the co-ordinates of point Q.

$$(-9, 5)$$

Answer: $(-9, 5)$
(2 marks)