Name:

Exam Style Questions

Reflections

Corbettmaths

Equipment needed: Ruler, Pencil and Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

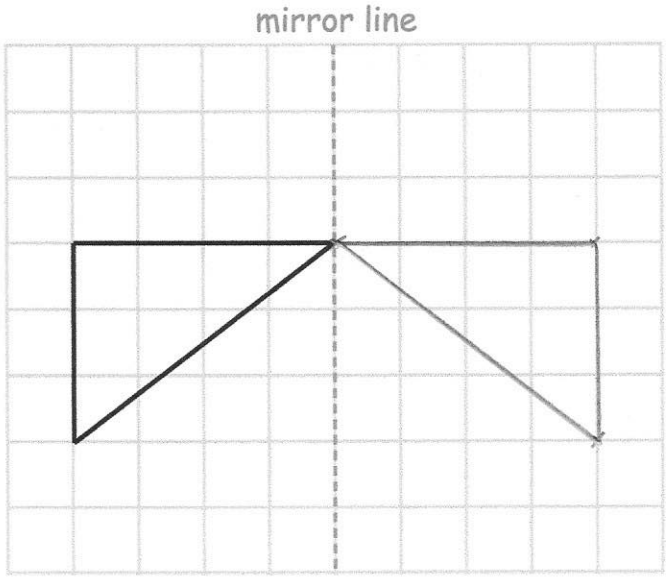
Video Tutorial

www.corbettmaths.com/contents

Videos 272, 273, 274

Answers and Video Solutions

1.



Reflect the triangle in the mirror line.

(2)

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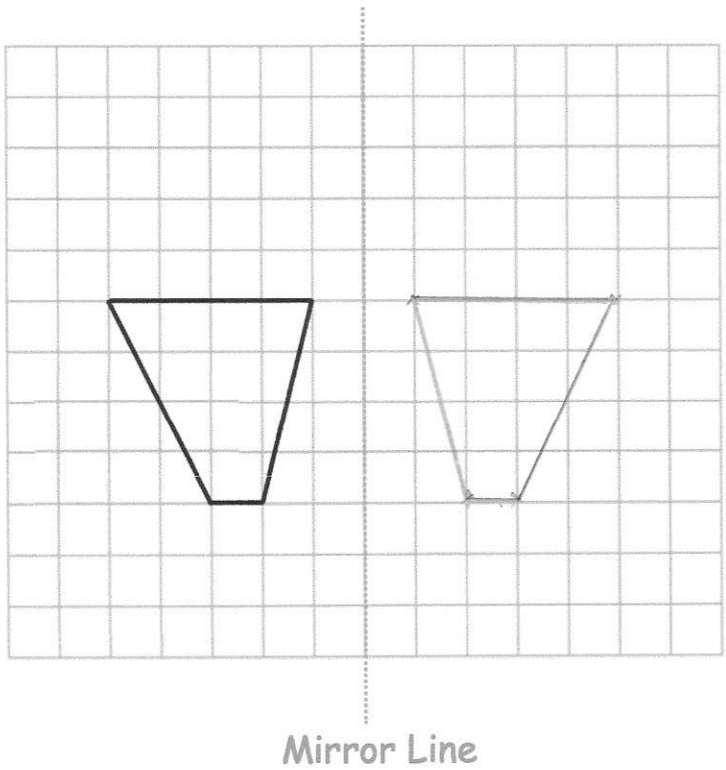
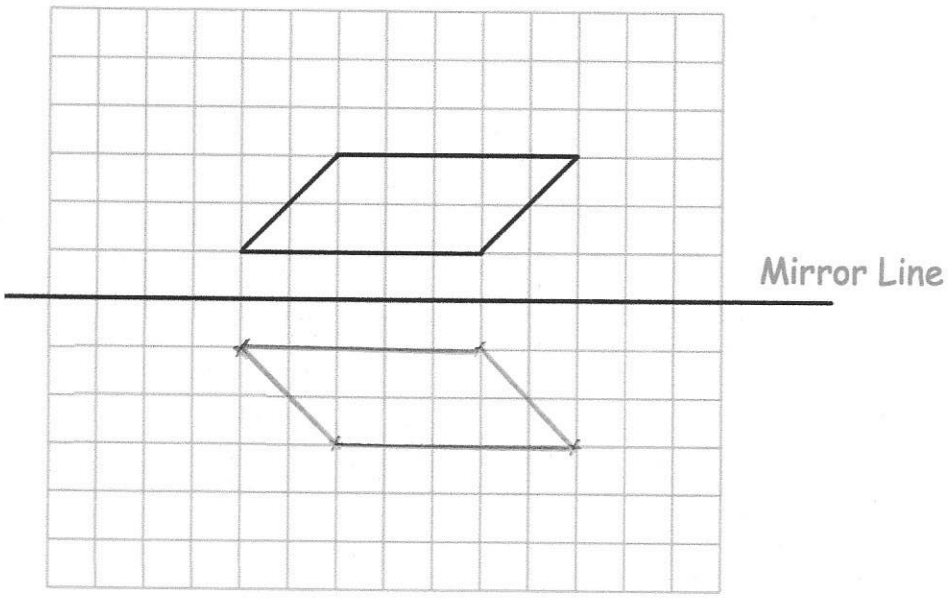
2. Reflect the shape using the dotted line as a mirror line.



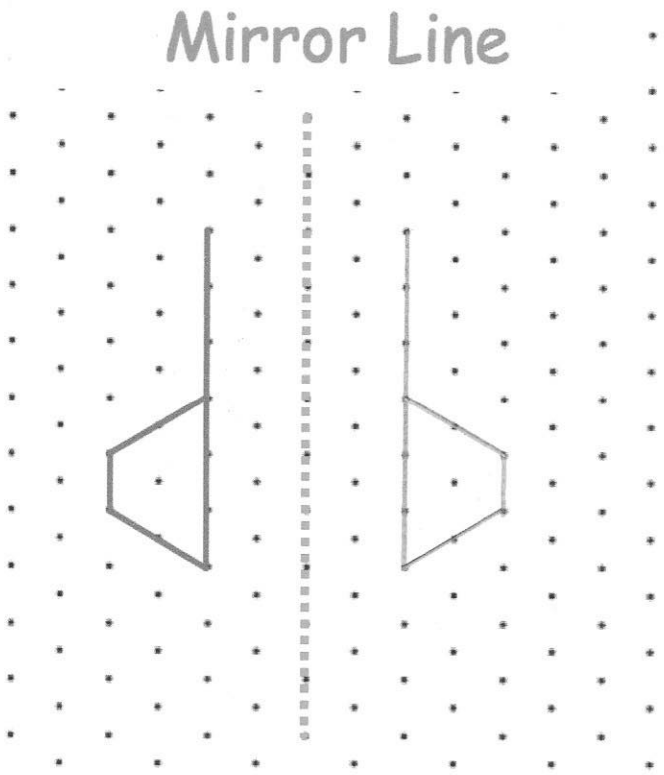
(2)

3. Reflect the shape in the mirror line.



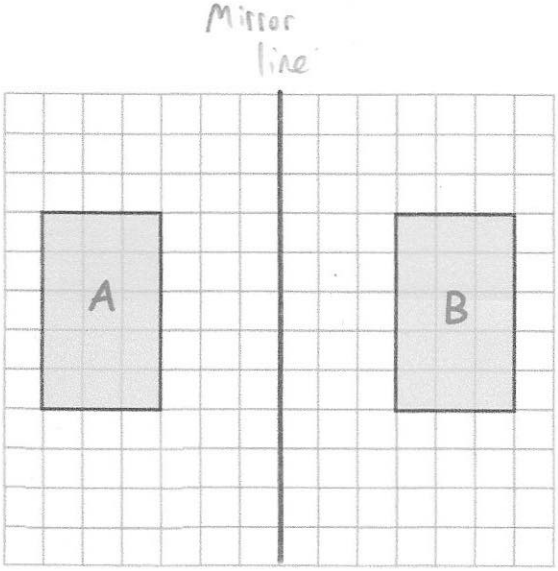
(2)

4. Reflect the shape in the mirror line drawn below.



(2)

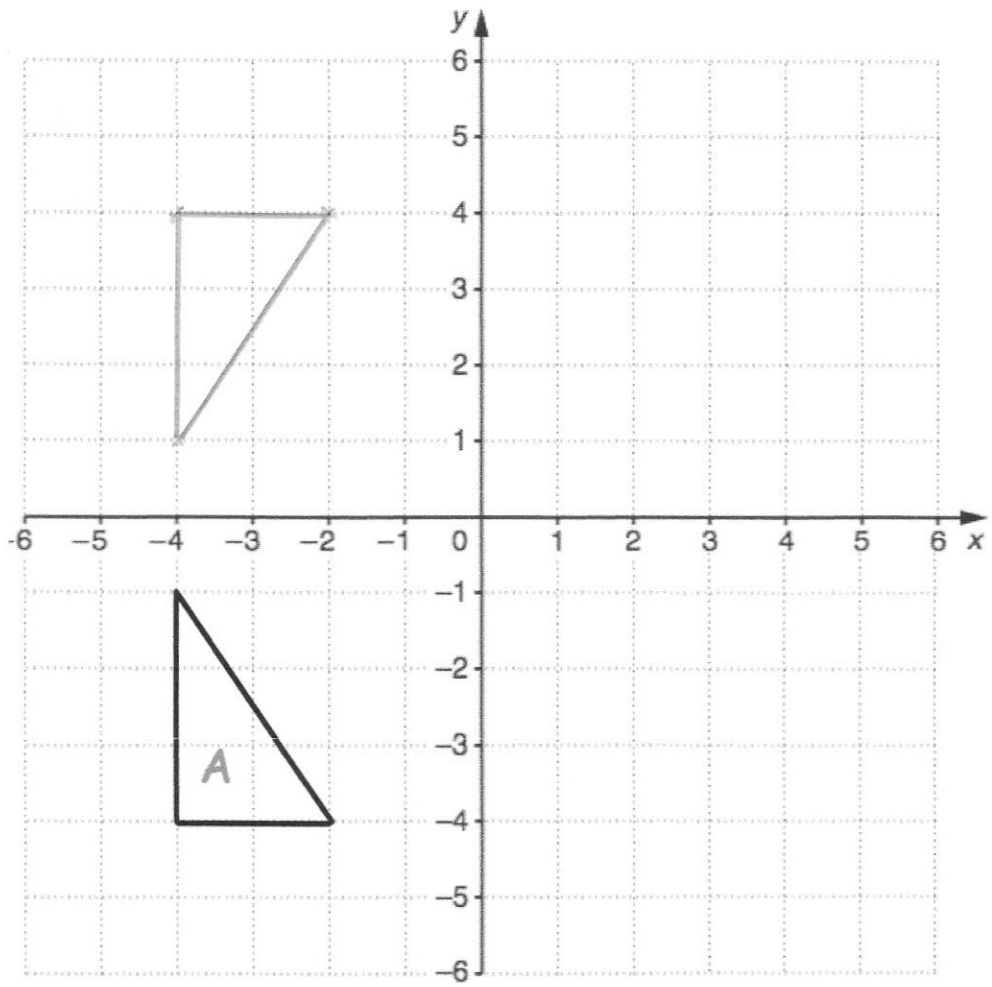
5.



A rectangle A has been reflected and the image labelled B.
Draw the mirror line on the grid.

(1)

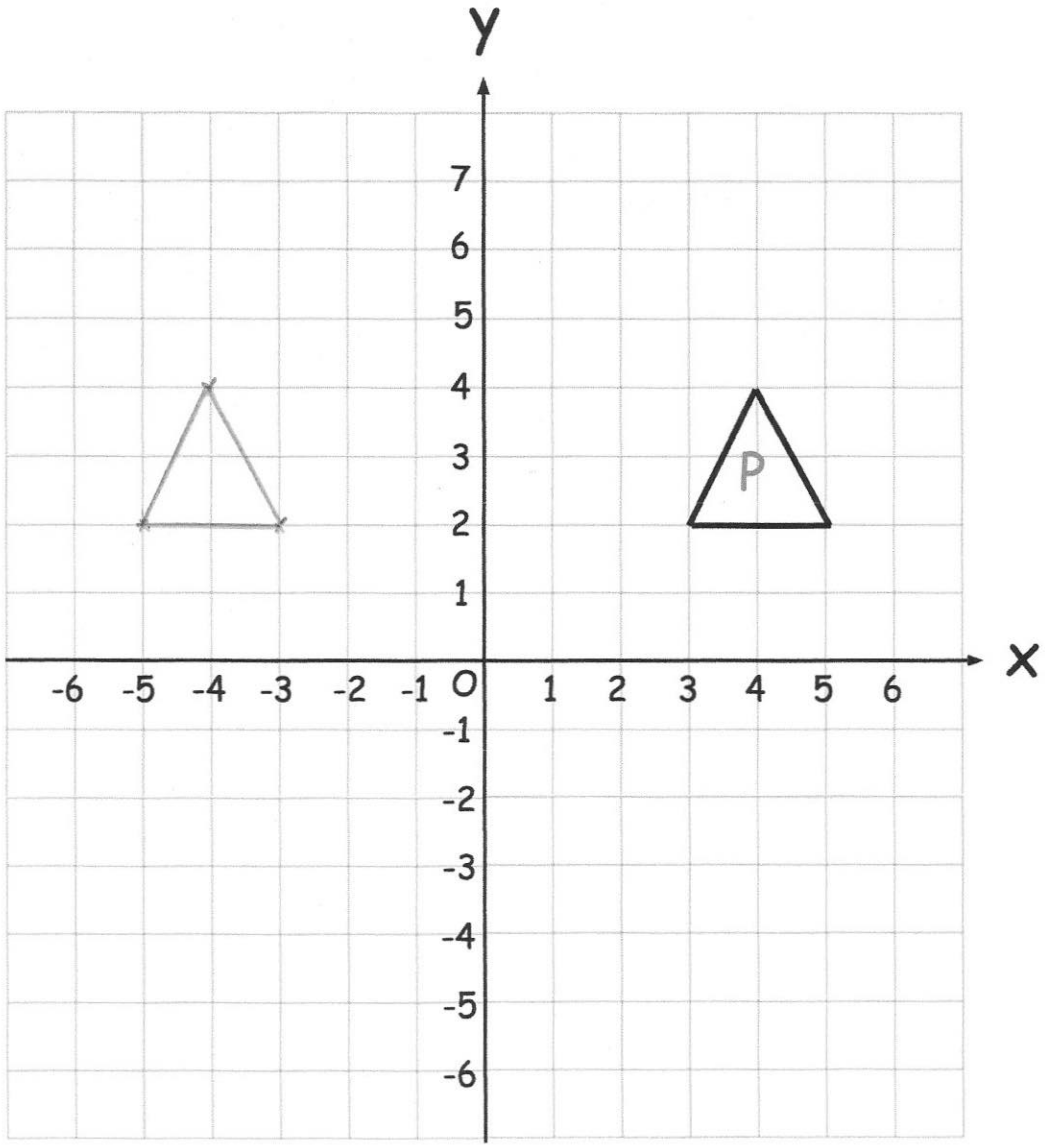
6.



Reflect triangle A in the x-axis.

(2)

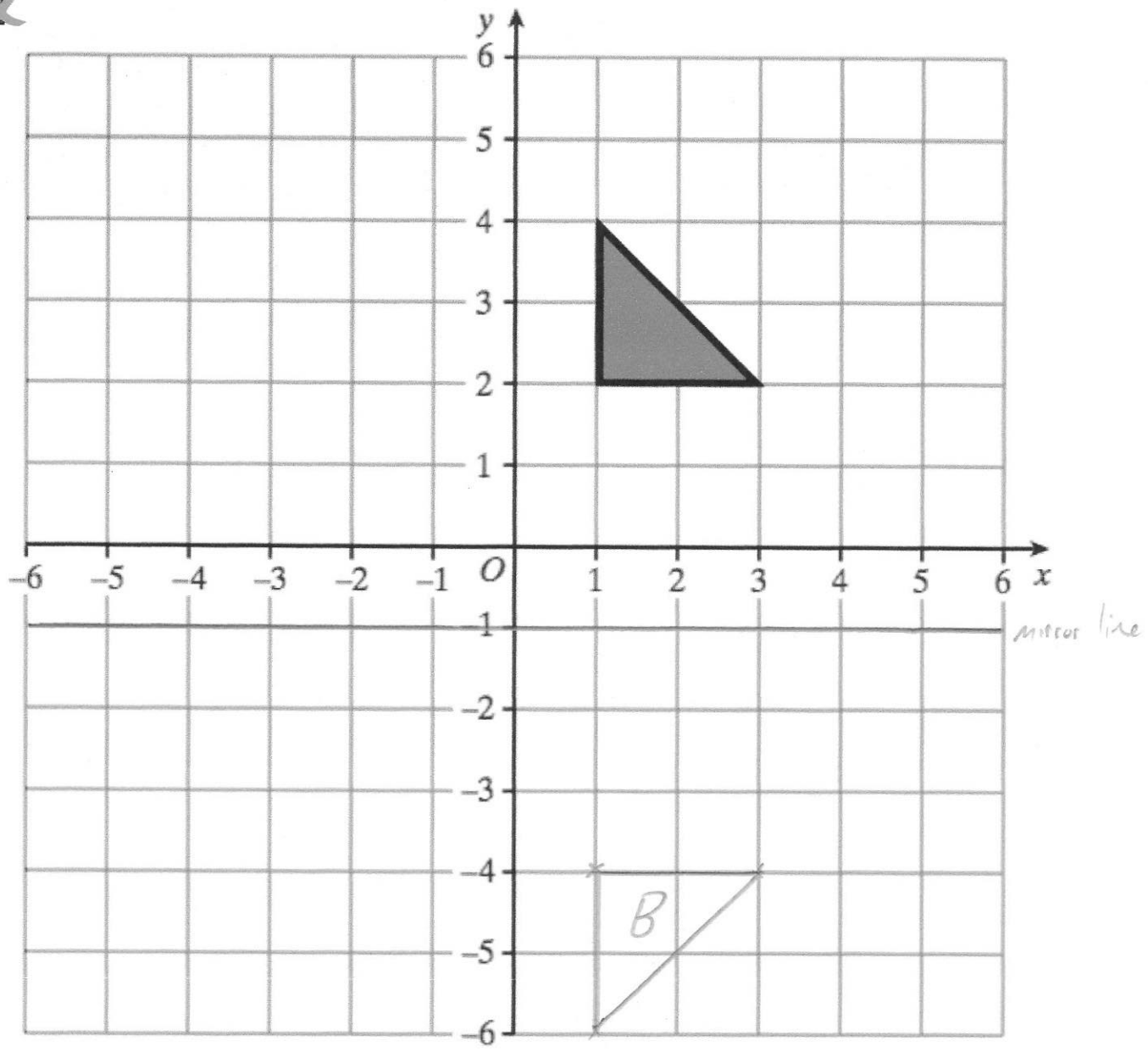
7



Reflect triangle P in the y-axis.

(2)

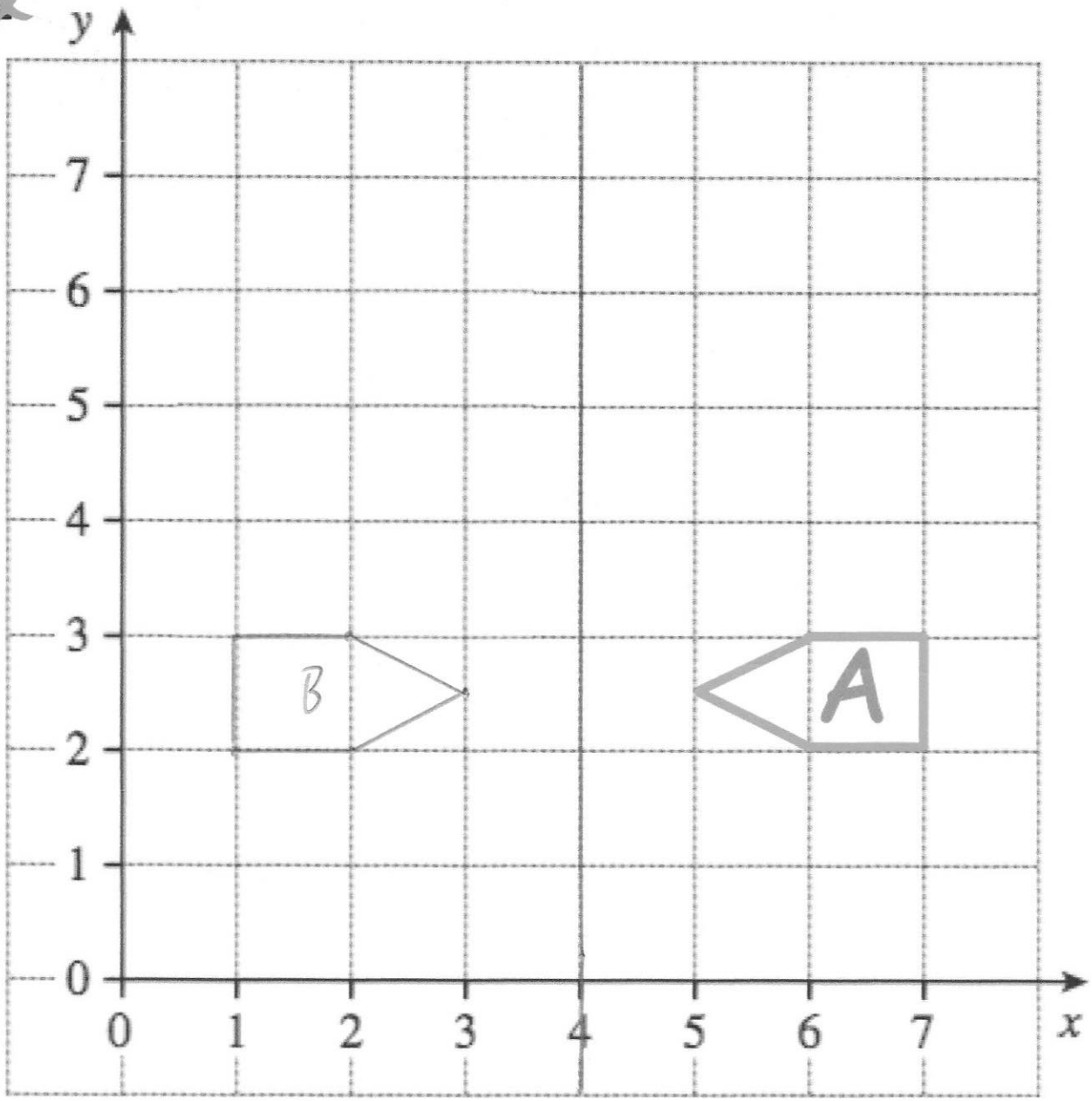
8.



Reflect the triangle in the line y = –1
Label the new triangle B.

(2)

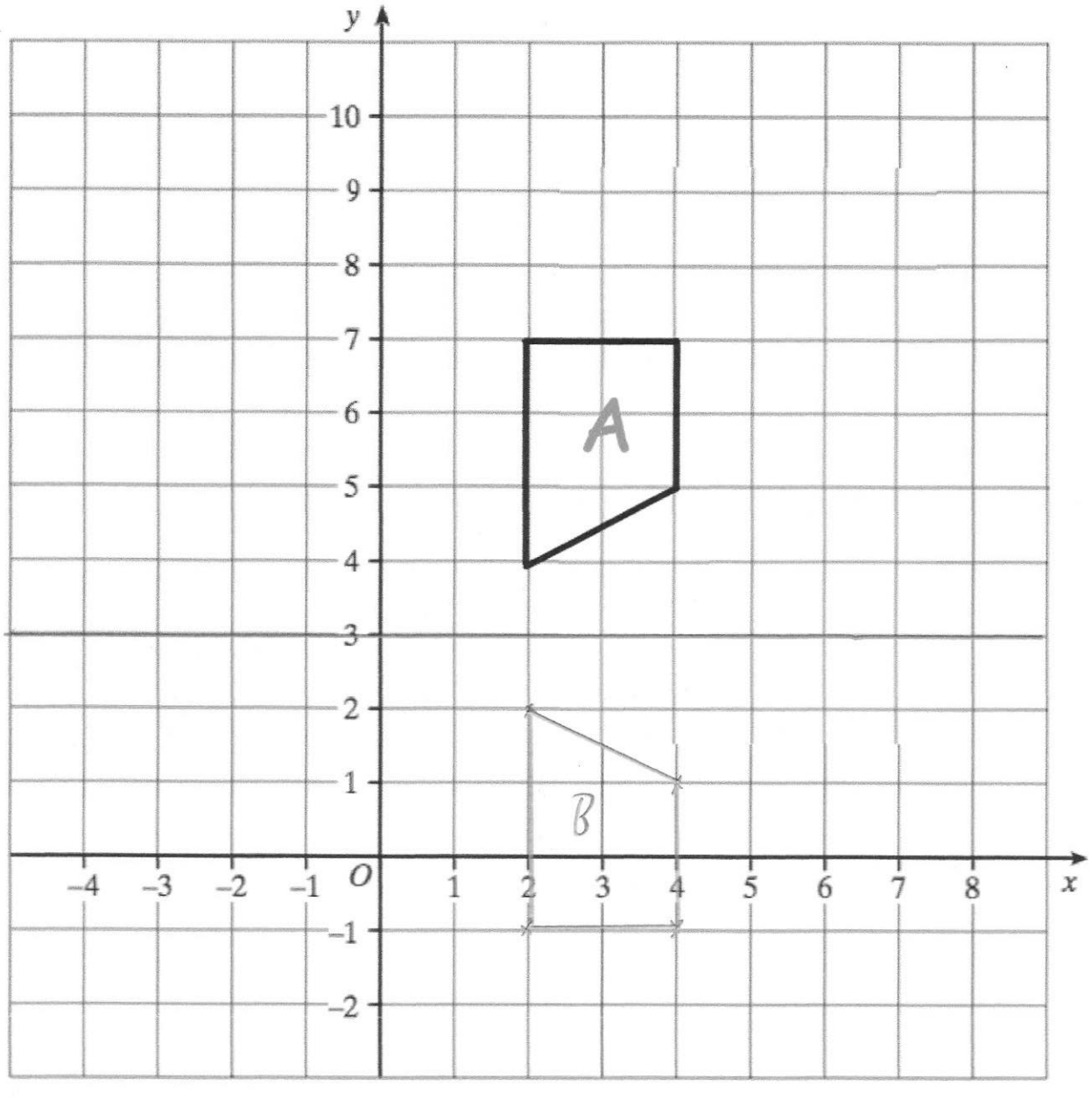
9.



Reflect shape A in the line x = 4
Label the new shape B.

(2)

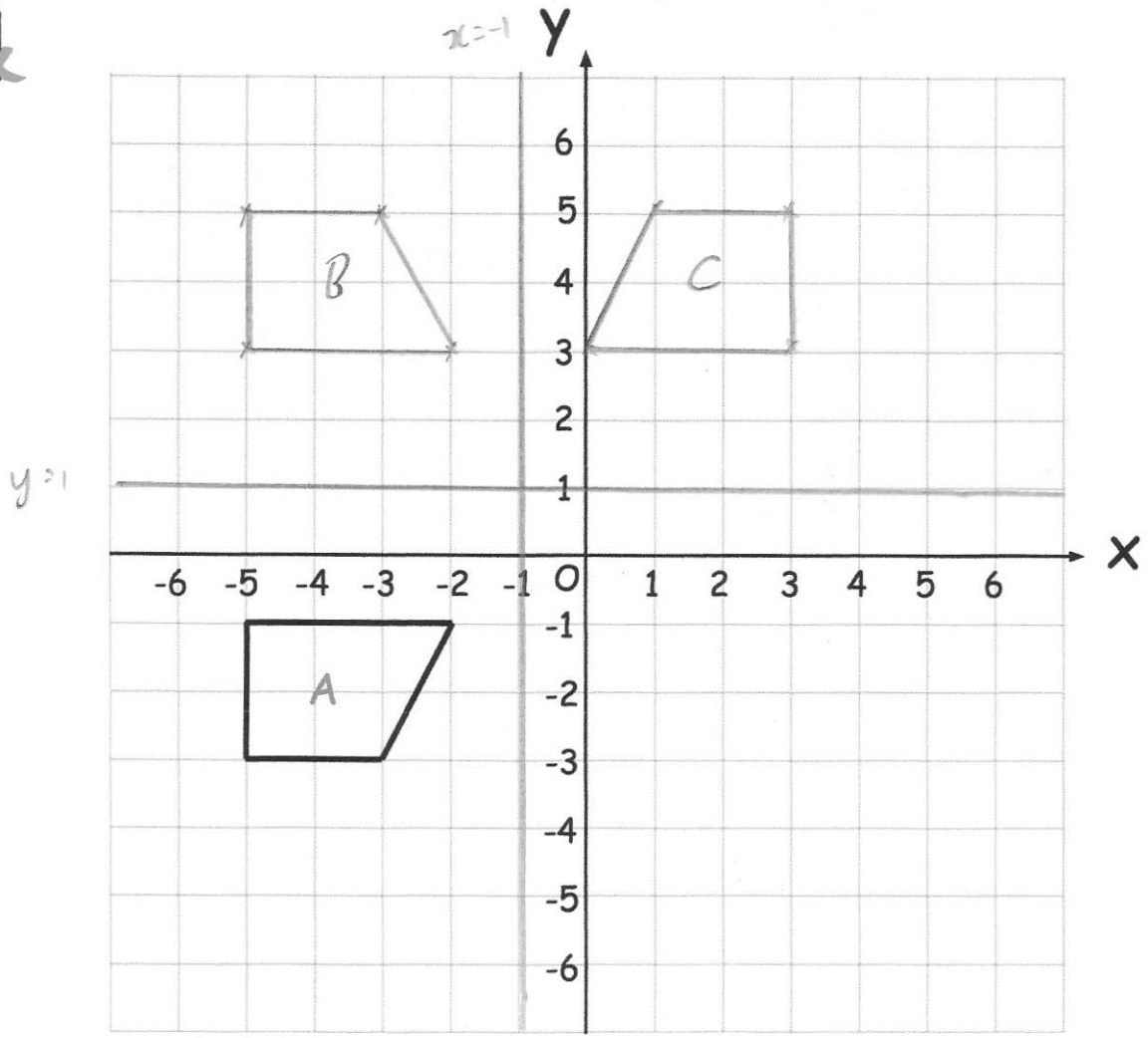
10.



Reflect shape A in the line y = 3
Label the new shape B.

(2)

11.



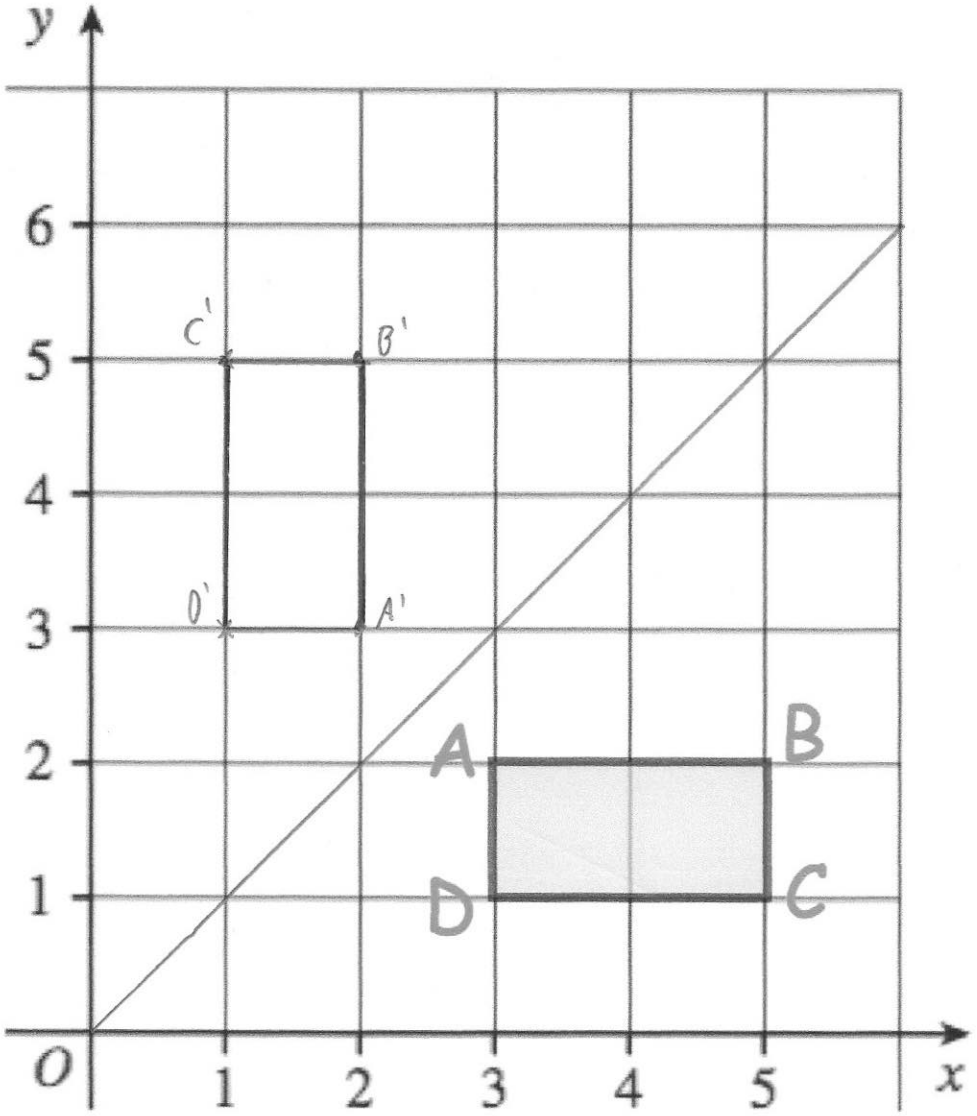
Shape A is reflected in the line $y = 1$ to give the shape B.

Shape B is reflected in the line $x = -1$ to give the shape C.

Show shape C on the grid.

(4)

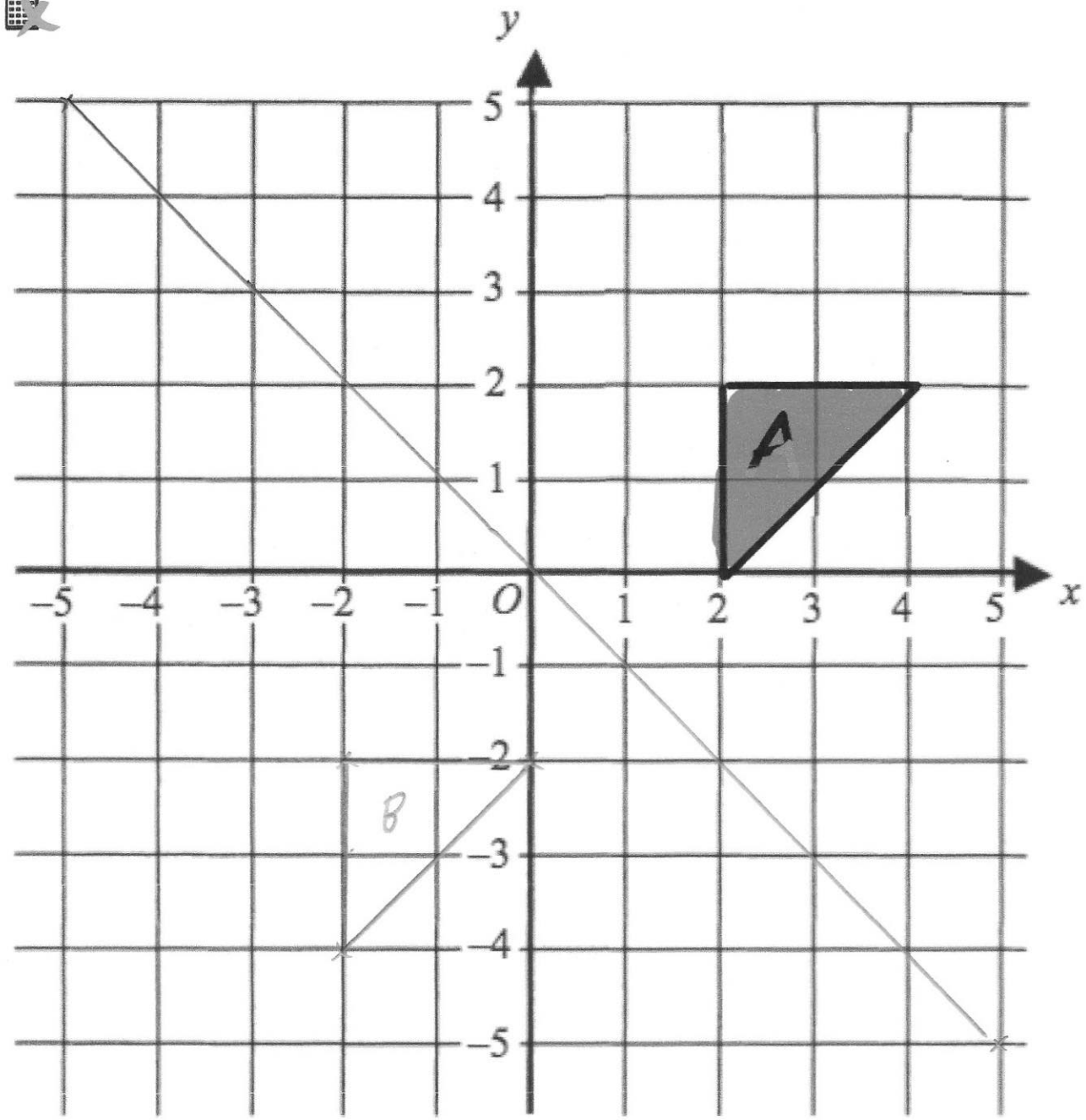
12.



Reflect the rectangle in the line y = x

(2)

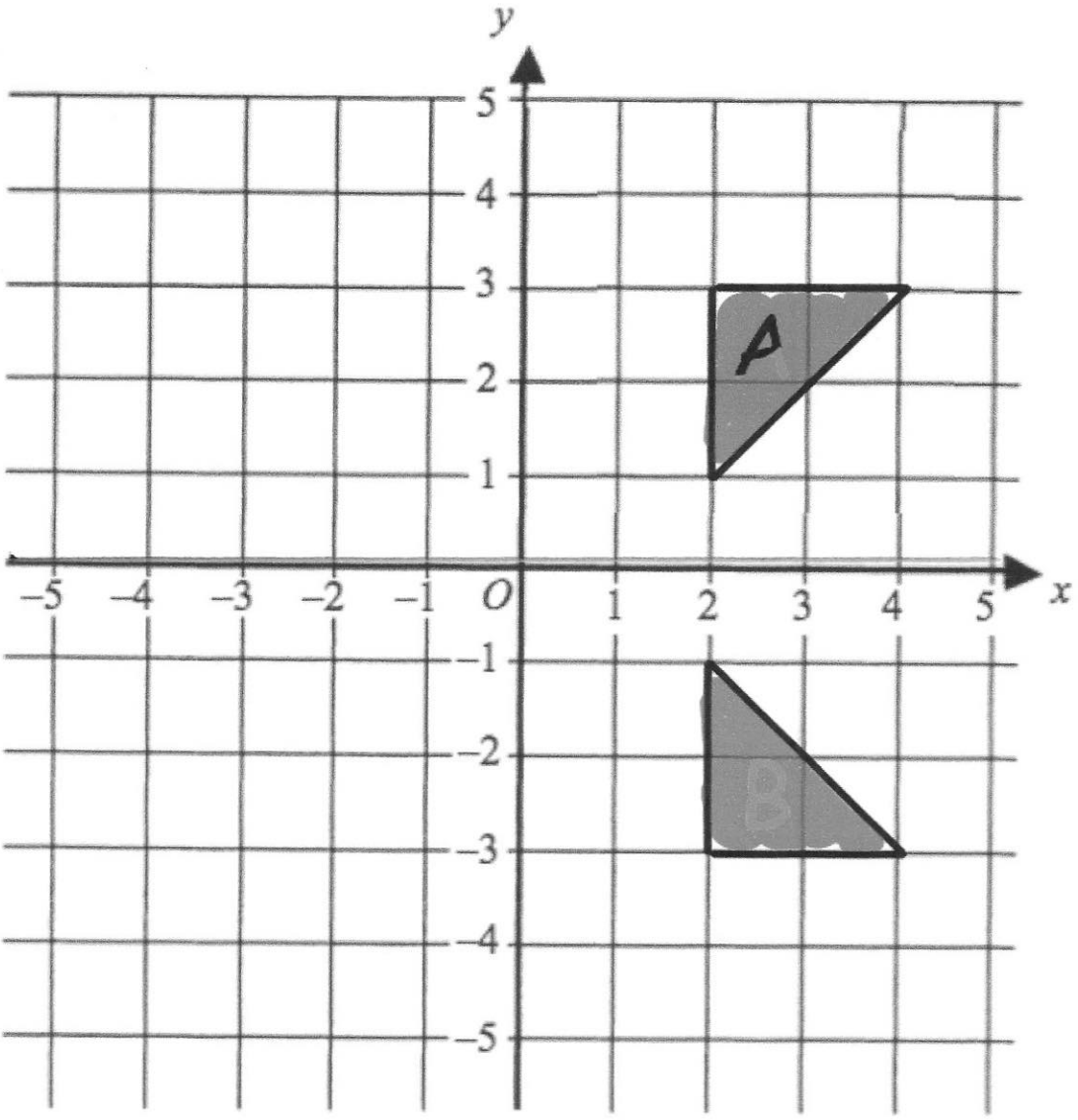
13.



Reflect the triangle in the line $y = -x$
Label the new triangle B.

(2)

14.

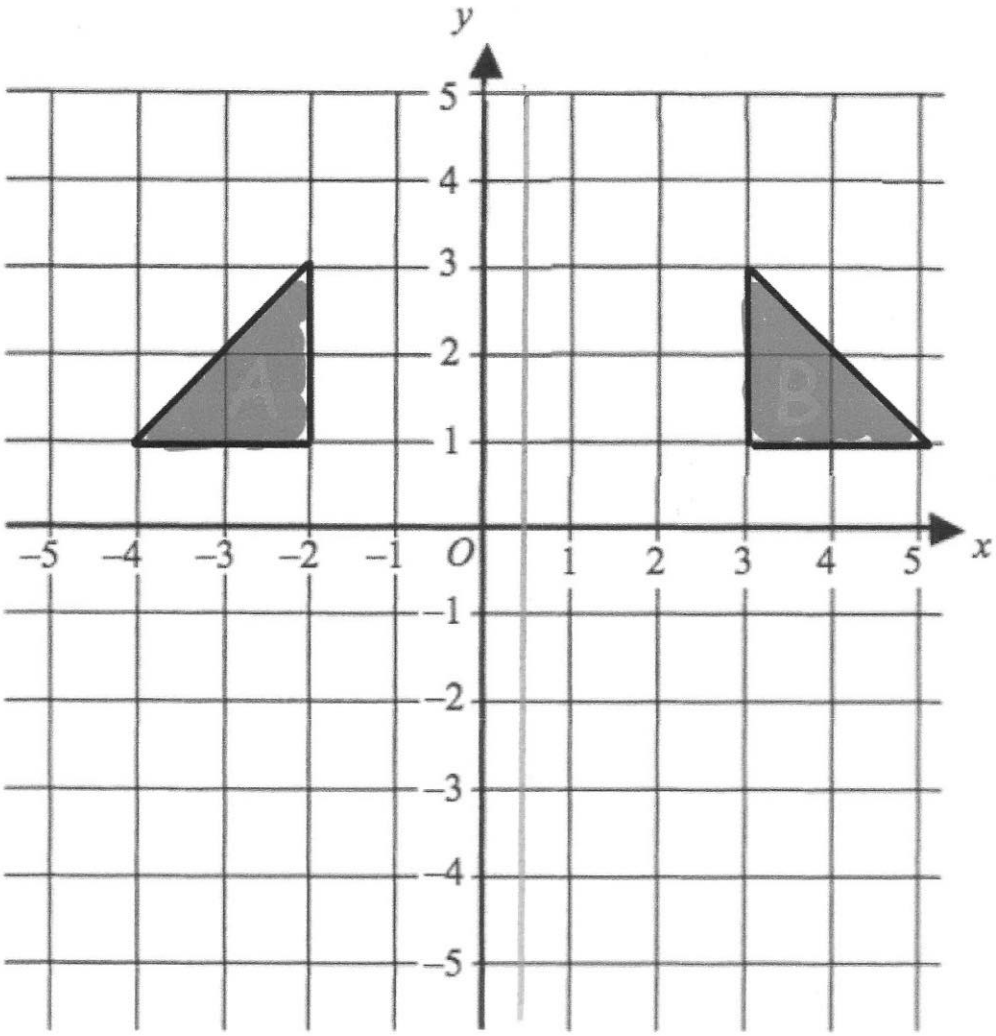


Describe fully the single transformation that maps triangle A onto triangle B.

A reflection with a mirror line of the x-axis.
or y=0.

(2)

15.

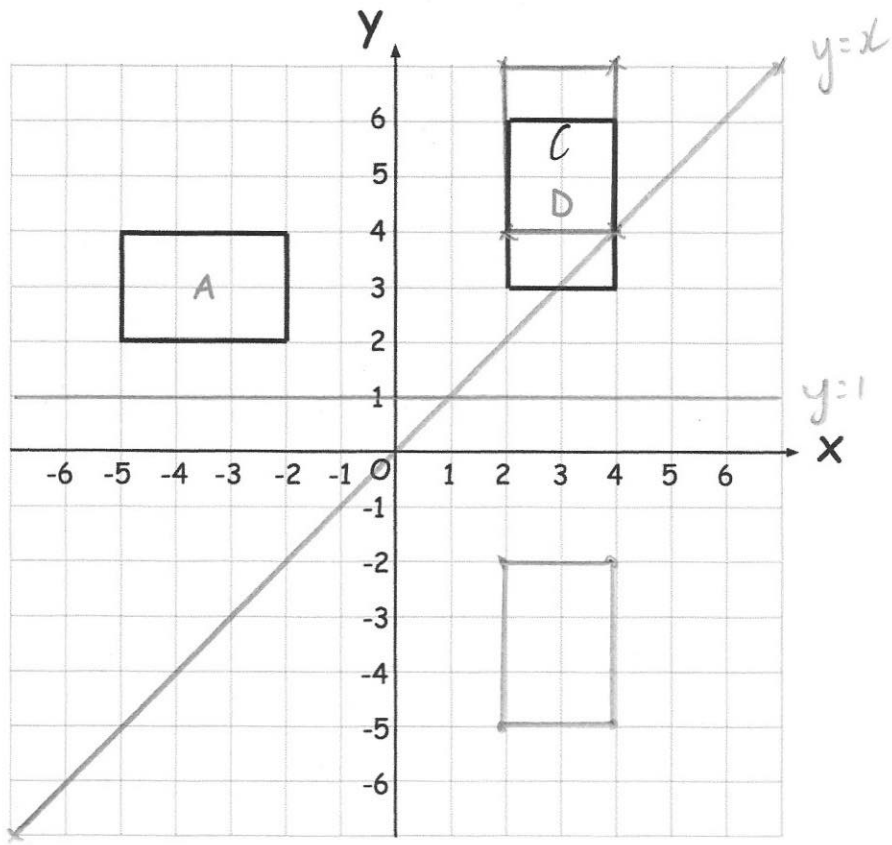


Describe fully the single transformation that maps triangle A onto triangle B.

A reflection with a mirror line of $x = 0.5$

(2)

16. Rectangles A and D are shown on the grid below.



Rectangle A is reflected in the line $y = x$ to get rectangle B.

Rectangle B is then reflected in the line $y = 1$ to get rectangle C.

Is rectangle C in the same position as rectangle D?
Clearly show your working.

No

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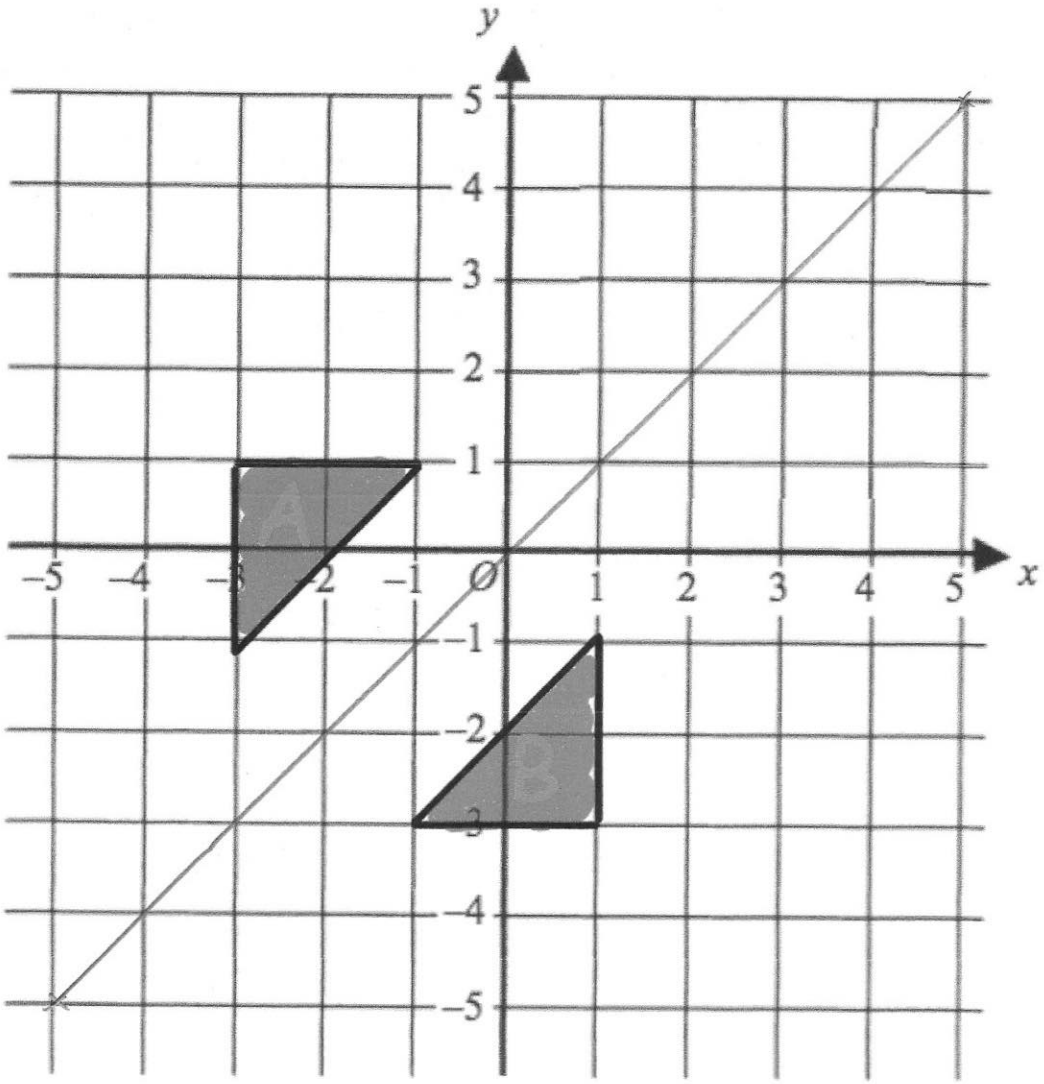
(3)

D is one square too low.
or C is one square above D.

17.

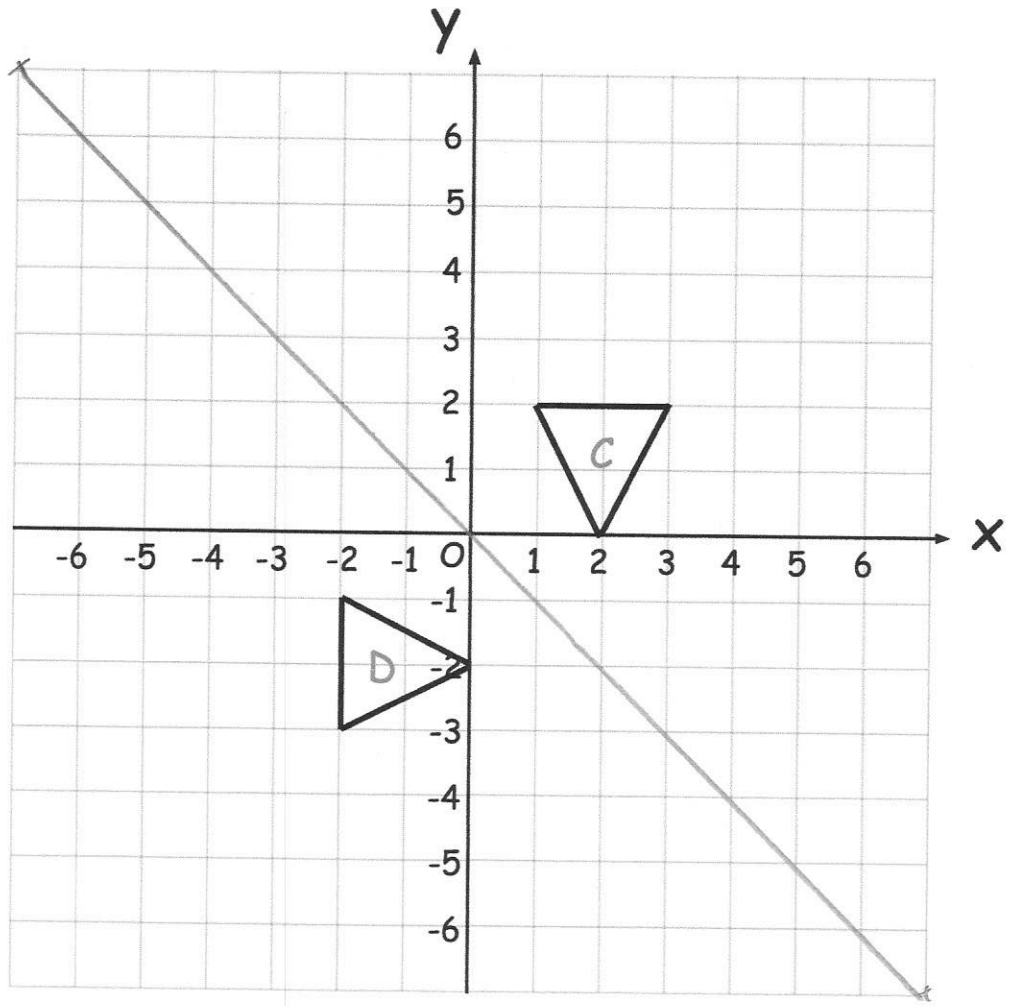


Describe fully the single transformation that maps triangle A onto triangle B.

A reflection with a mirror line of $y = x$.

(2)

18.



Describe fully the single transformation that maps triangle C onto triangle D.

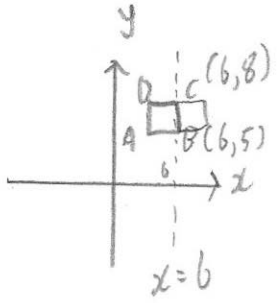
A reflection in the line $y = -x$

(2)

19. A square ABCD has vertices with coordinates $A(3, 5)$, $B(6, 5)$, $C(6, 8)$ and $D(3, 8)$

The square is reflected and the points B and C do not move.

Write down the equation of the mirror line.



$x = 6$

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(2)