Name:

Exam Style Questions

Translations

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

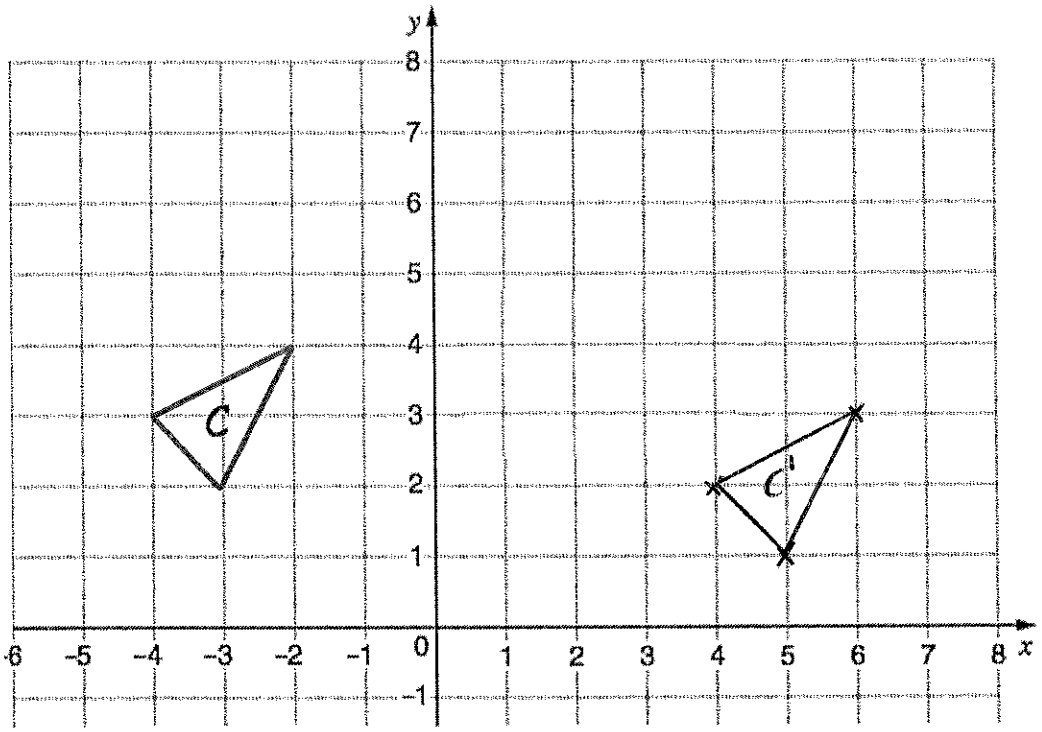
Revision for this topic

Secondary

Video 325

Video 326

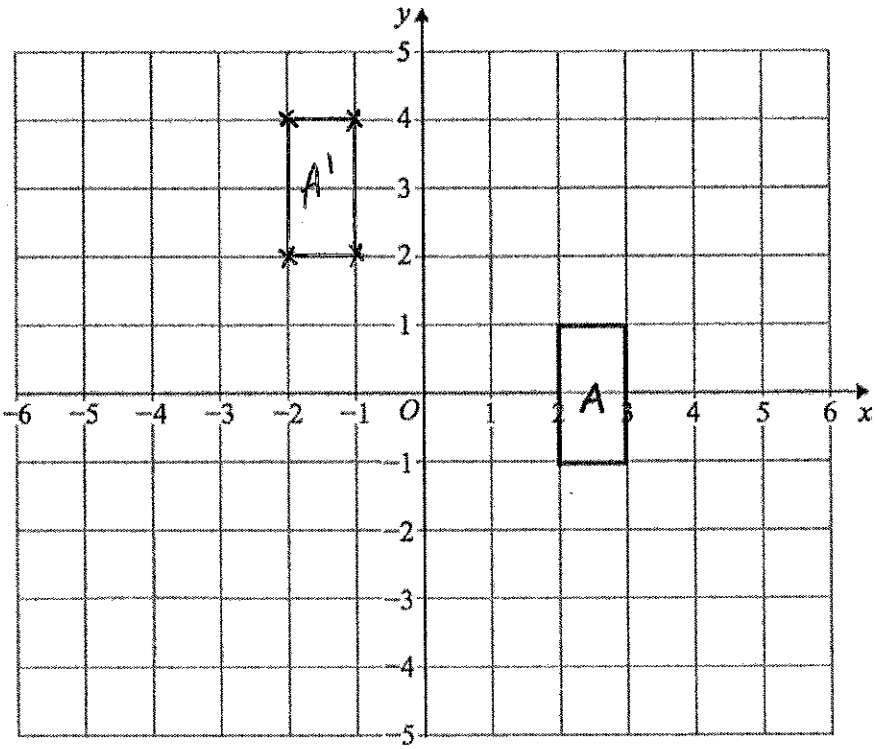
1.



Translate triangle C by 8 squares right and 1 square down.

(1)

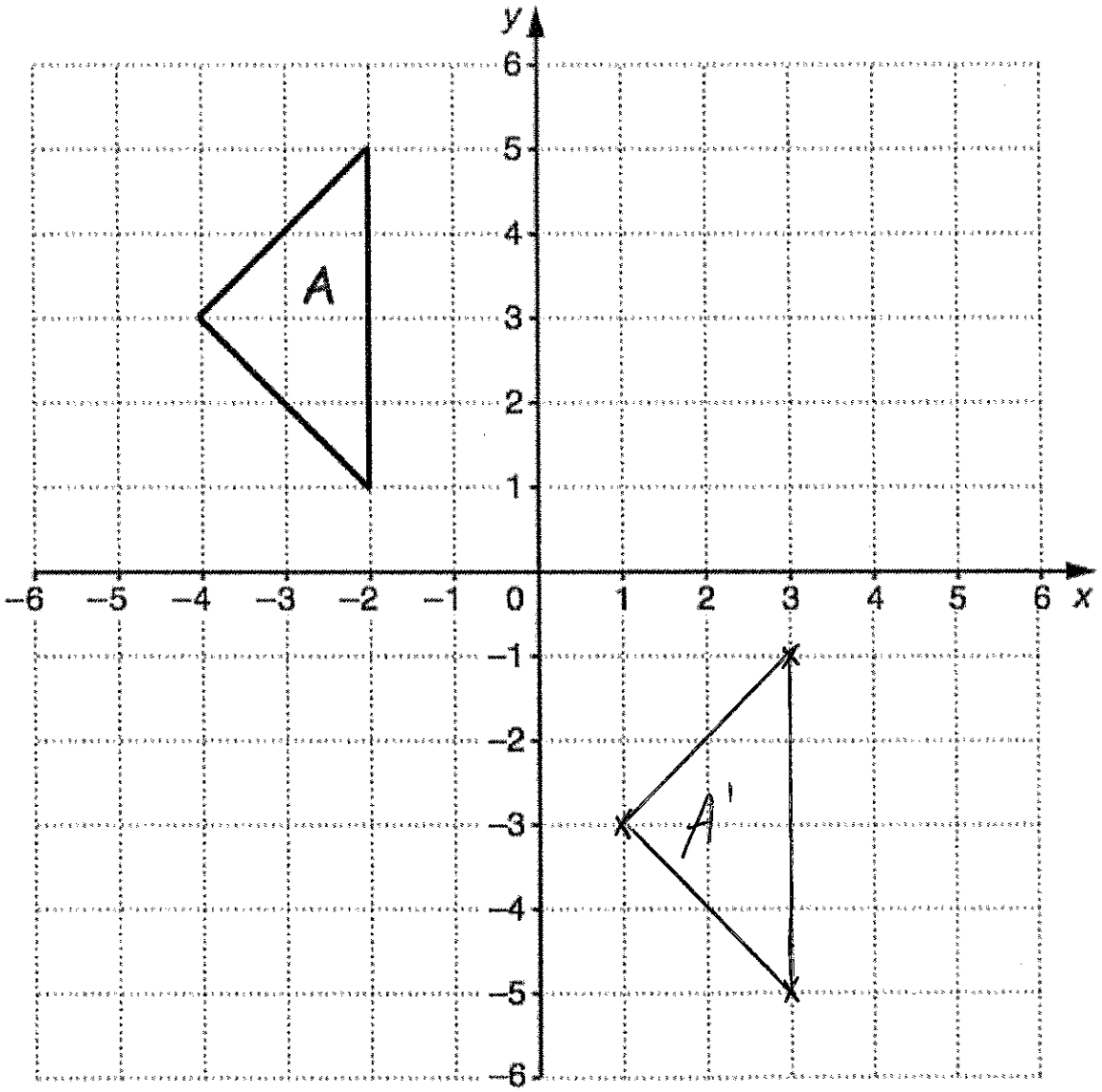
2.



Translate rectangle C by 4 squares left and 3 square up.

(1)

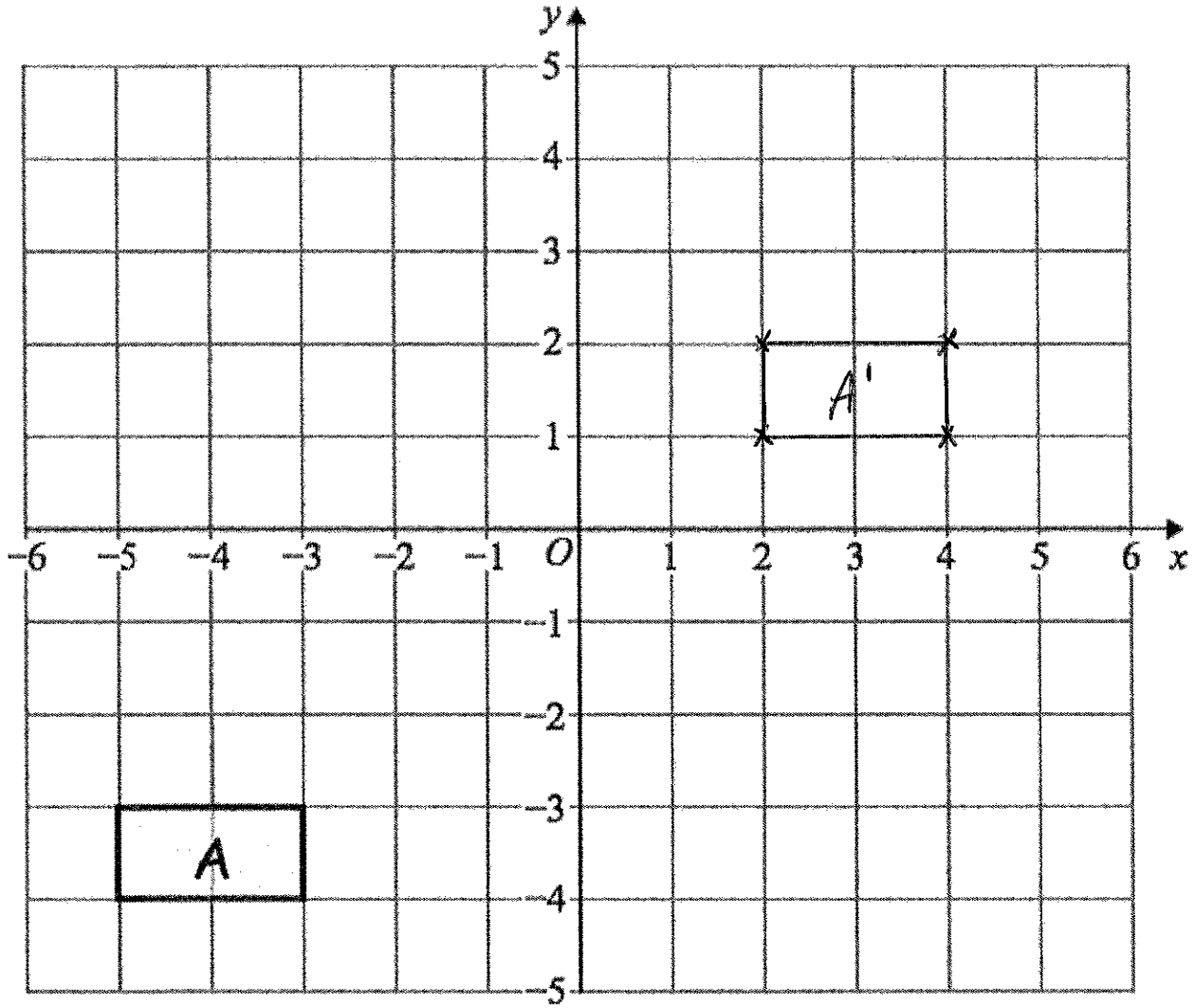
3.



Translate triangle A by $\begin{pmatrix} 5 \\ -6 \end{pmatrix}$. 5 right 6 down

(2)

4.

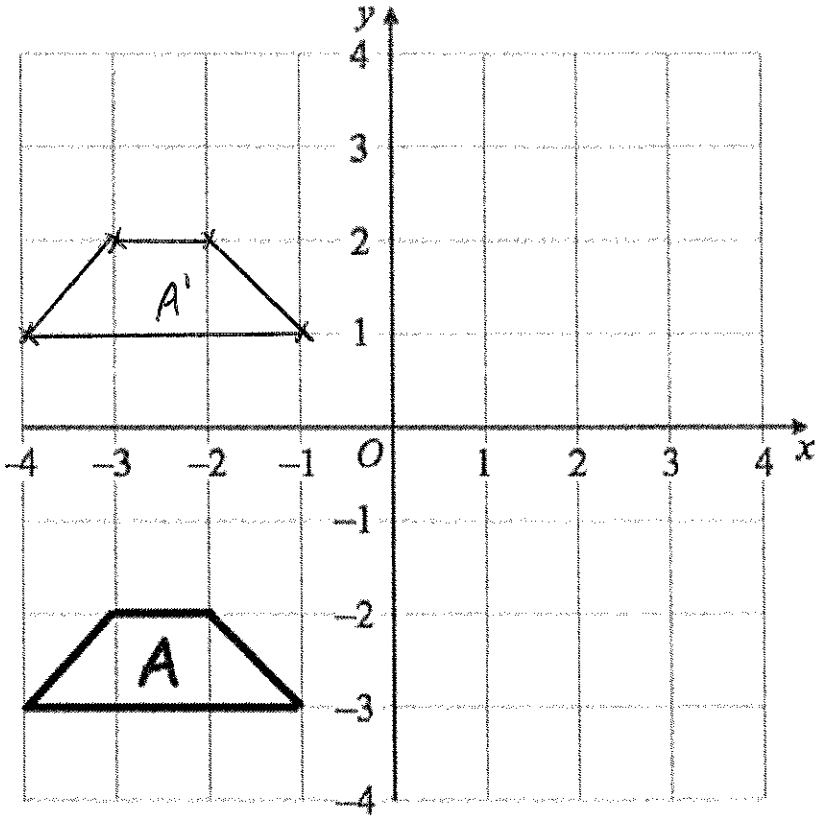


Translate rectangle A by $\begin{pmatrix} 7 \\ 5 \end{pmatrix}$ right up

Label the new shape B.

(2)

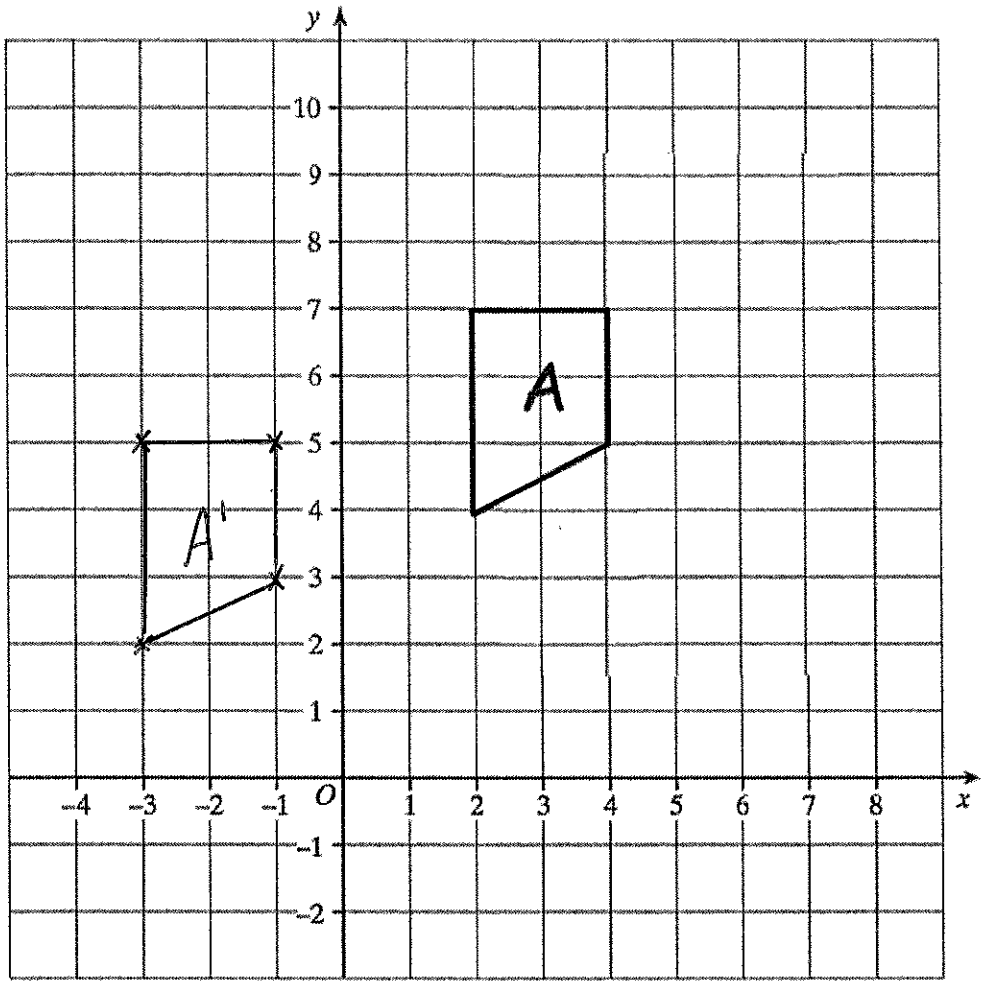
5.



Translate trapezium A by the vector $\begin{pmatrix} 0 \\ 4 \end{pmatrix}$ up

(1)

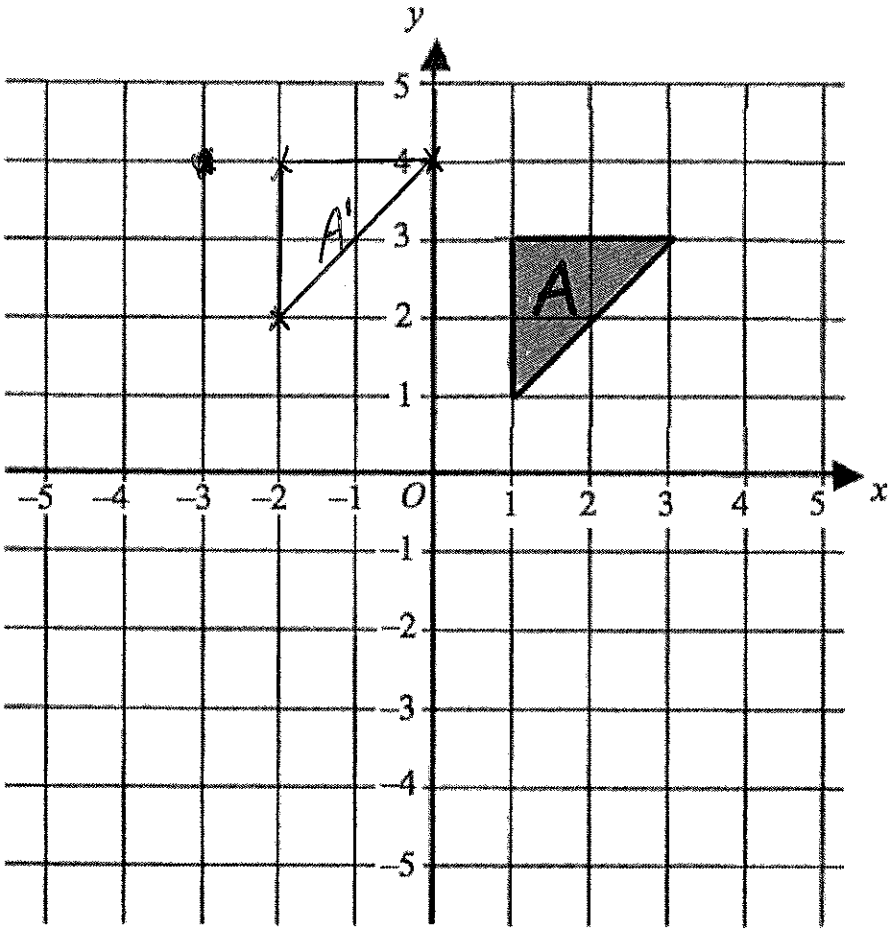
6.



Translate shape A by the vector $\begin{pmatrix} -5 \\ -2 \end{pmatrix}$ left down

(2)

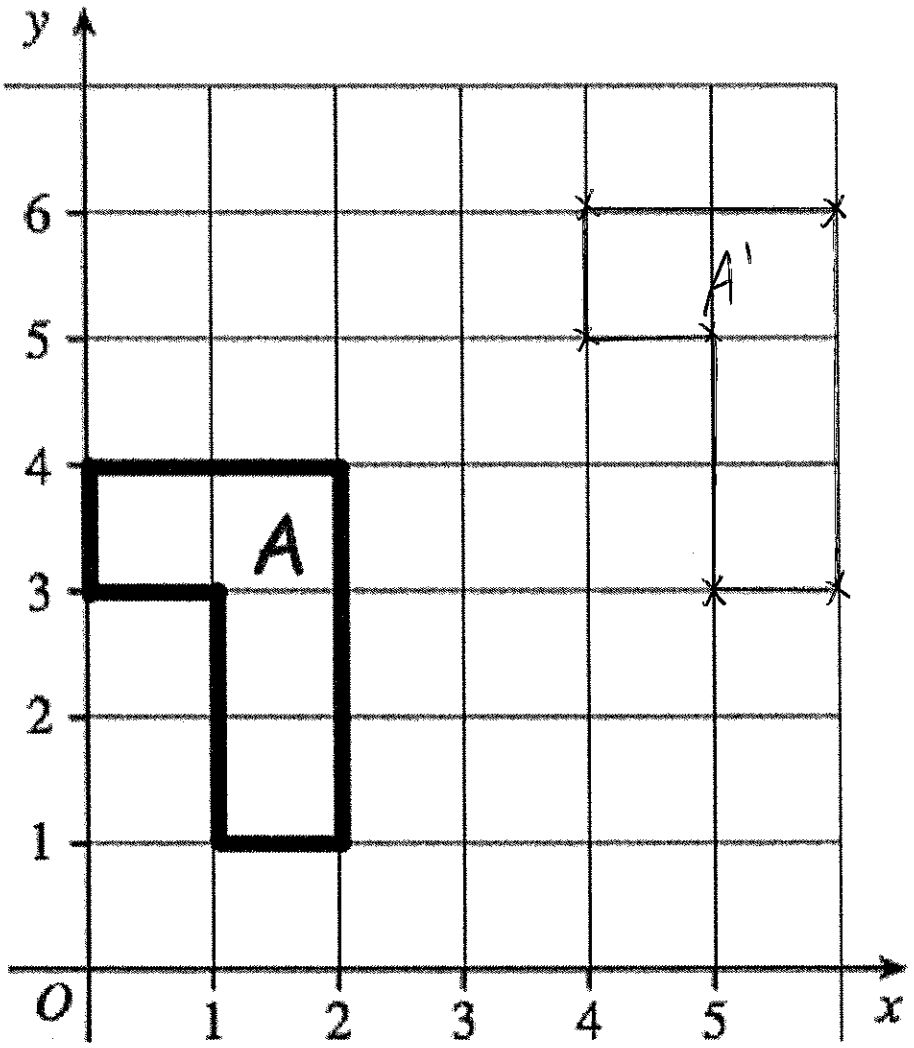
7.



Translate triangle A by the vector $\begin{pmatrix} -3 \\ 1 \end{pmatrix}$ left up

(2)

8.



(a) Translate shape A by the vector $\begin{pmatrix} 4 \\ 2 \end{pmatrix}$ right up and label B.

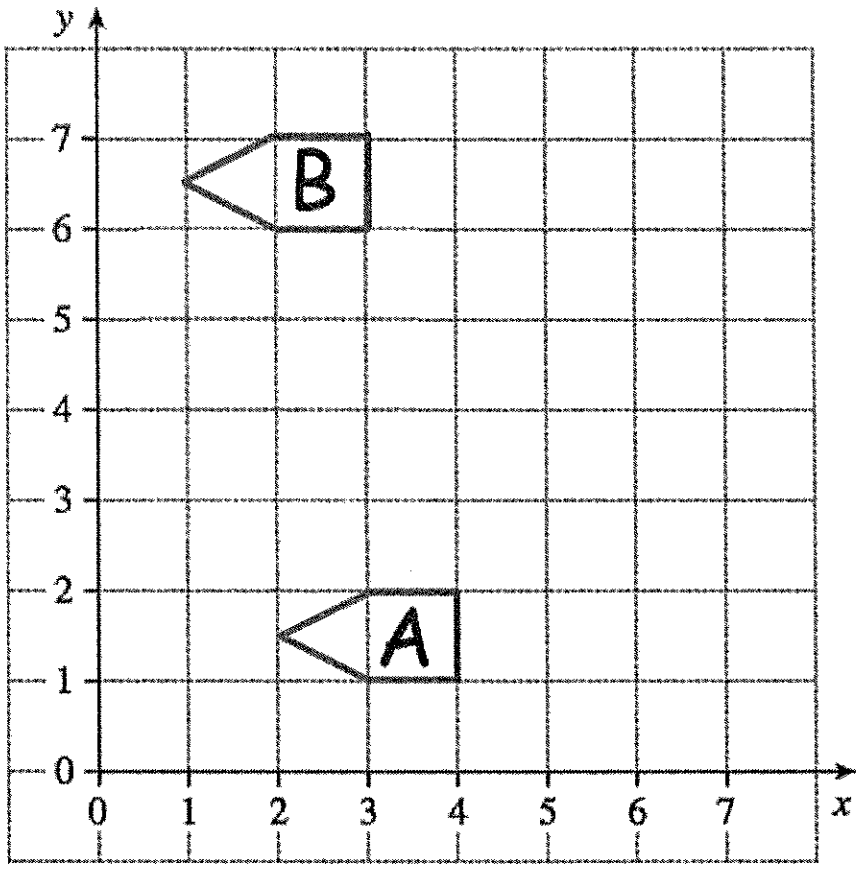
(2)

(b) Write down the translation vector that would return B to A.

$\begin{pmatrix} -4 \\ \cdots\cdots \\ -2 \\ \cdots\cdots \end{pmatrix}$

(1)

9.

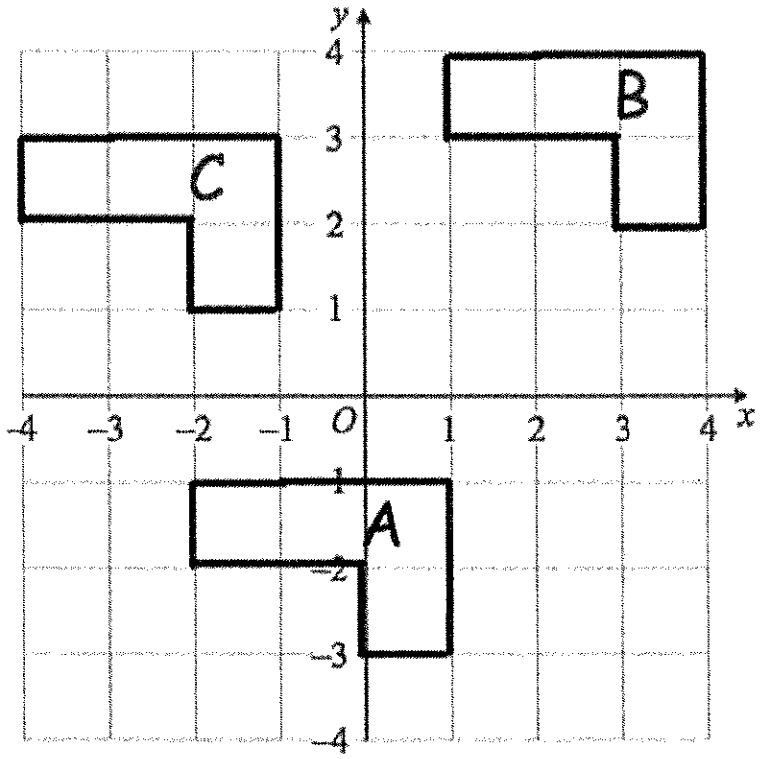


Write down the translation vector that would take A to B.

$$\begin{pmatrix} -1 \\ 5 \end{pmatrix}$$

(1)

10.



(a) Write down the translation vector that would take A to B.

$\begin{pmatrix} 3 \\ 5 \end{pmatrix}$

(1)

(b) Write down the translation vector that would take B to C.

$\begin{pmatrix} -5 \\ -1 \end{pmatrix}$

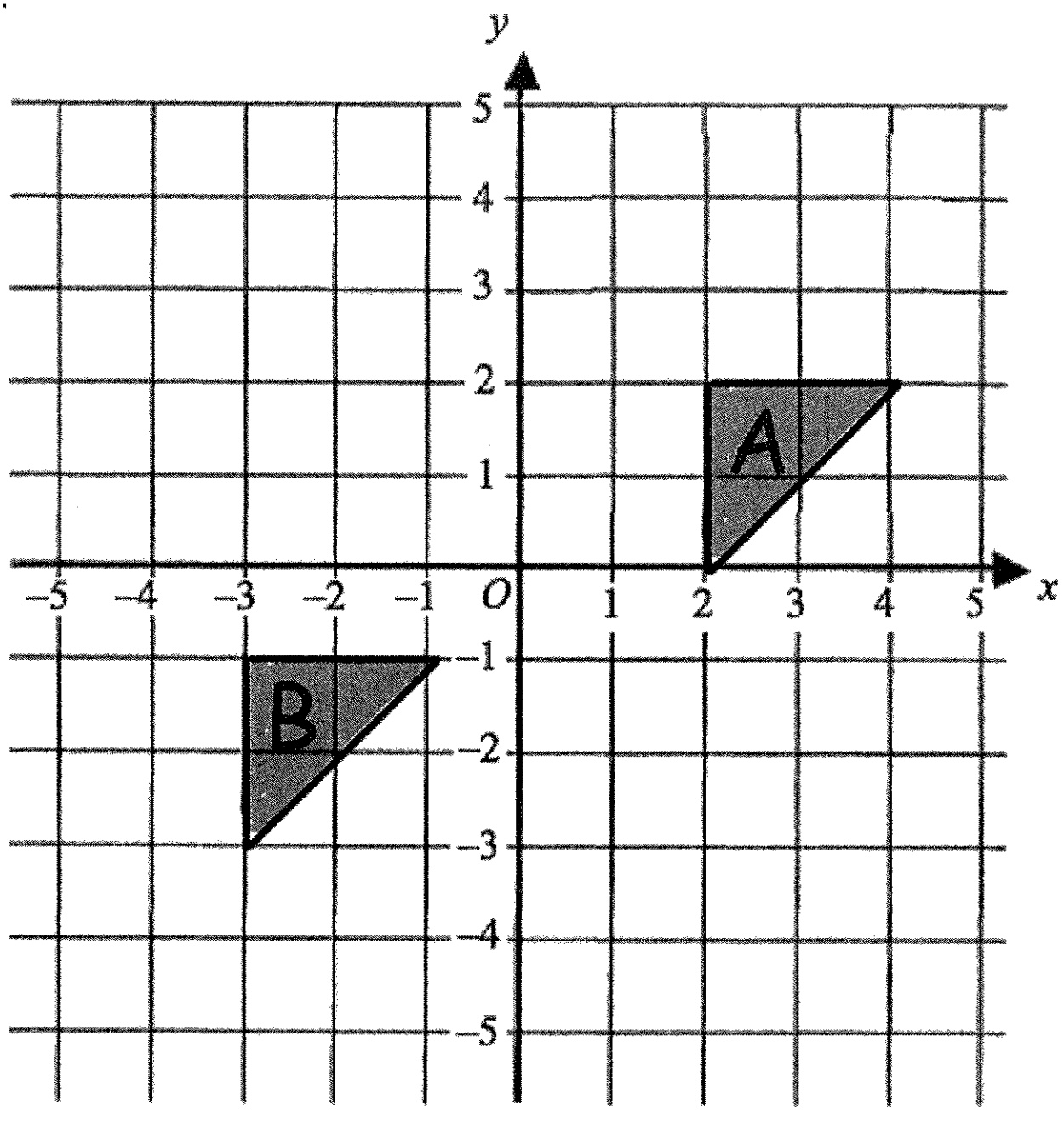
(1)

(c) Write down the translation vector that would take C to A.

$\begin{pmatrix} 2 \\ -4 \end{pmatrix}$

(1)

11.



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

A translation by the vector $\begin{pmatrix} -5 \\ -3 \end{pmatrix}$

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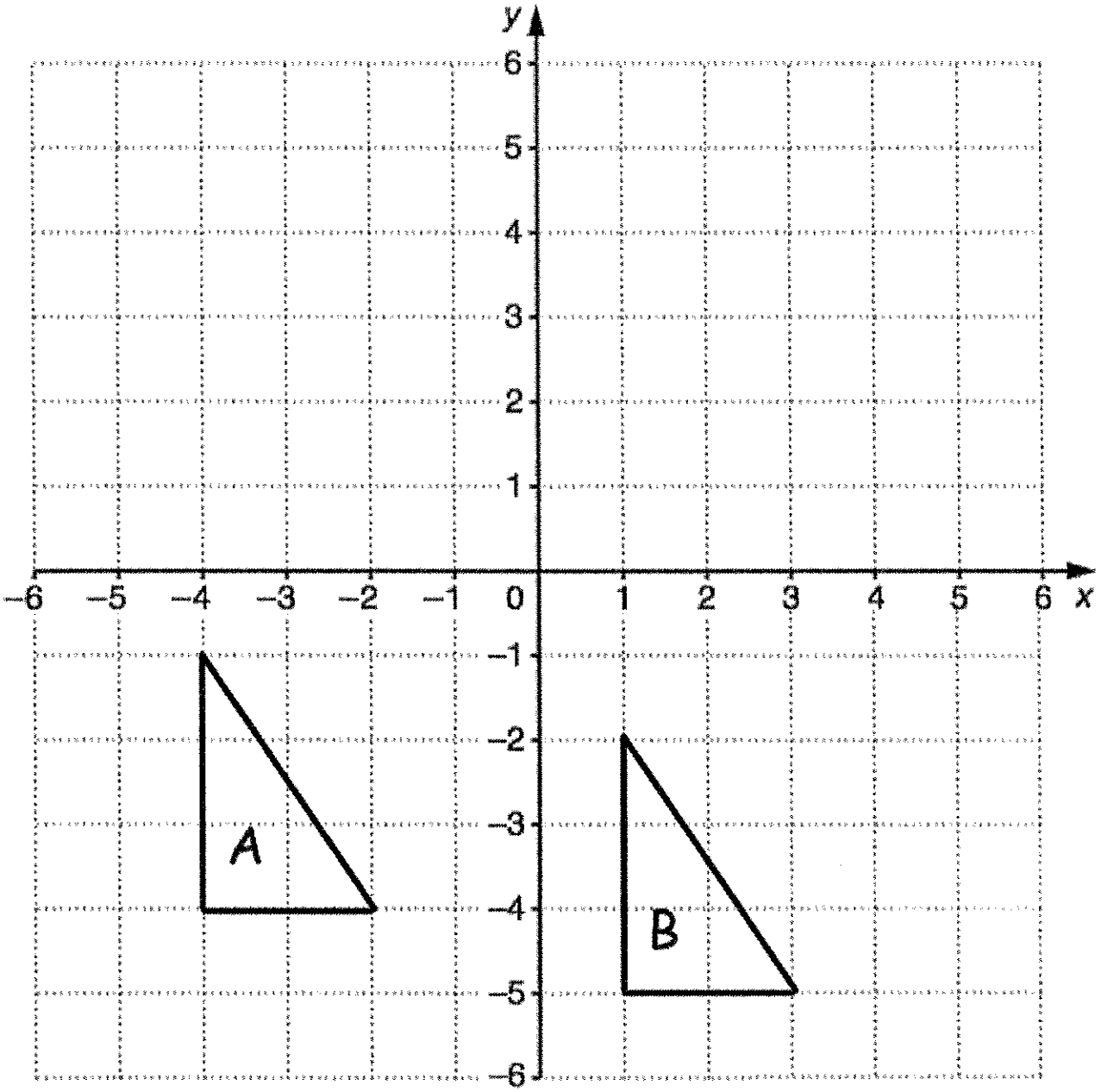
(2)

12.

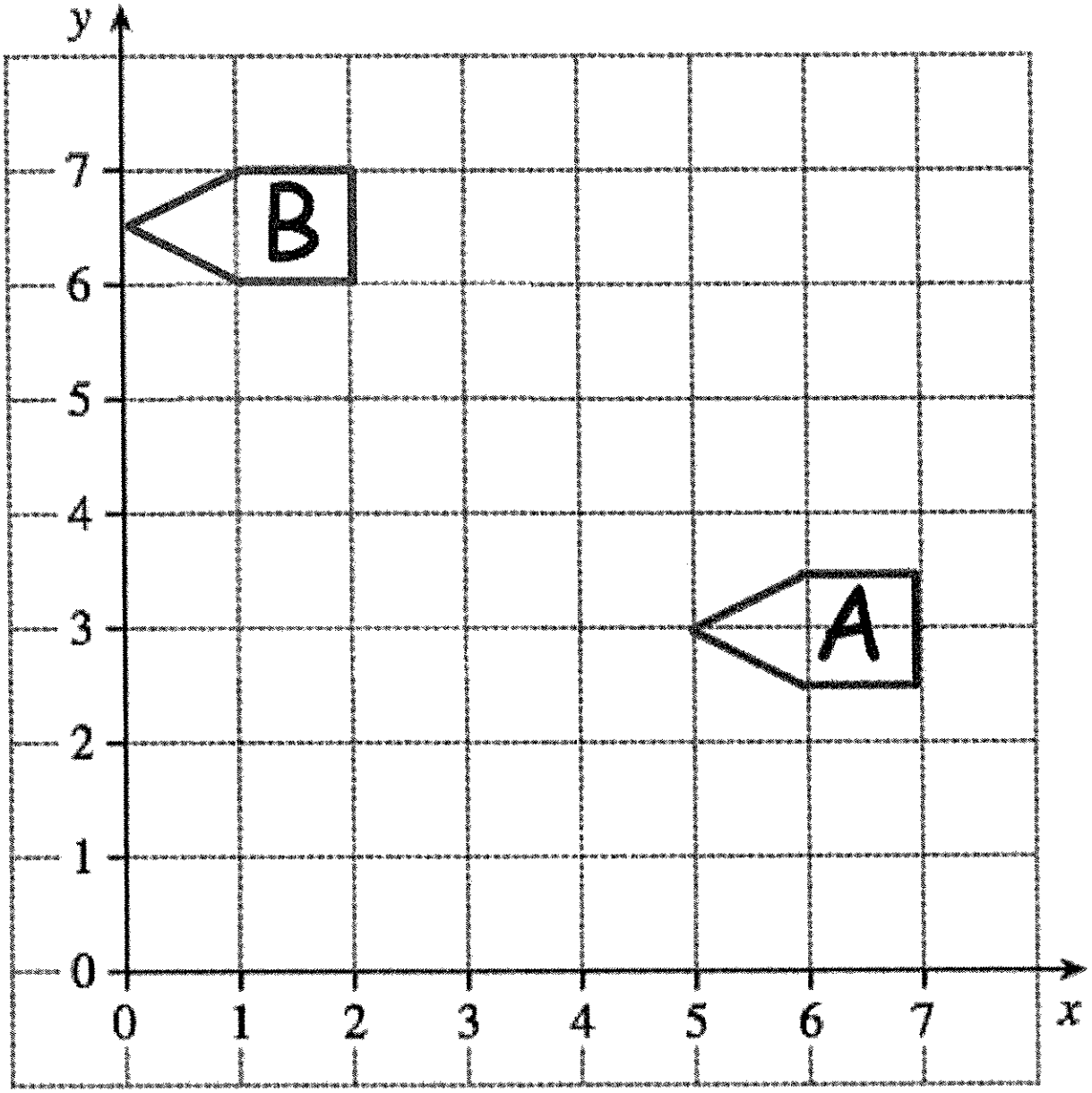


Describe fully the single transformation that maps shape A onto shape B.

A translation by the vector $\begin{pmatrix} 5 \\ -1 \end{pmatrix}$

(2)

13.



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

A translation by the vector $\begin{pmatrix} -5 \\ 3.5 \end{pmatrix}$

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(2)