

### Examination practice questions

**You should have:**

A ruler, protractor, compasses, a pen, pencil, eraser, calculator.  
For some questions, you may need tracing paper.

### Instructions

- Use **black** ink or ball-point pen.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators may be used.**

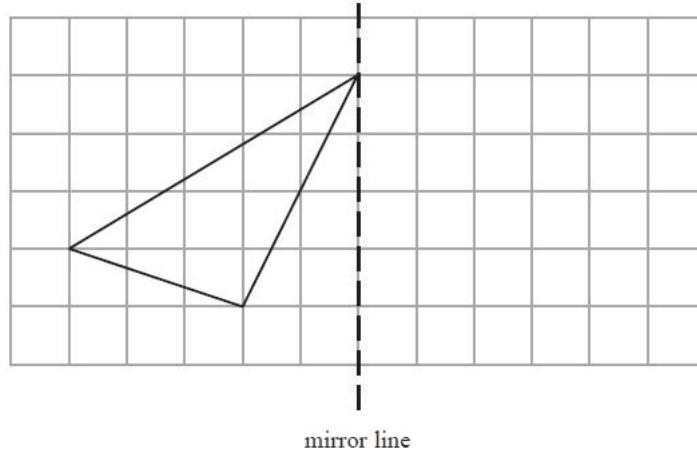
### Information

- The marks for each question are shown in brackets.
- If the number of marks for two similar questions isn't the same, this is likely due to them being modelled on different specifications. In this case, it is worth considering both mark schemes.
- Use the number of marks for each question as a guide as to how much time to spend on each question. As a rough guide, you can multiply the number of marks by 1.2 to see how many minutes you should spend on a question.
- Questions will generally get more challenging as the document progresses. Some of the latter questions will go beyond the core grade level for this topic.

### Advice

- Read each question carefully before you start to answer it.
- Don't forget to have fun.
- Check your answers at the end.

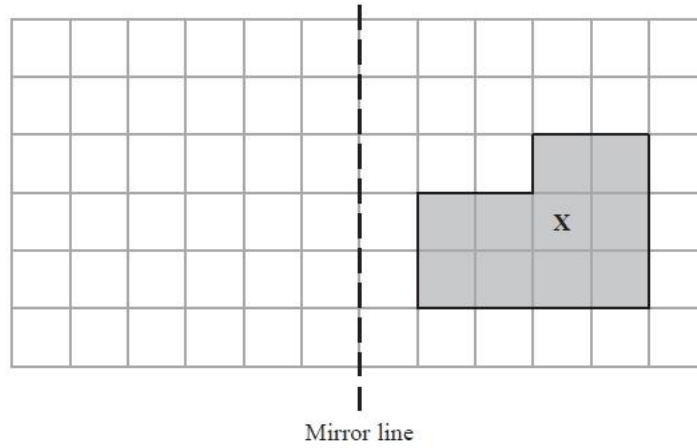
**Q1.**



On the grid, reflect the shape in the mirror line.

**(1 mark)**

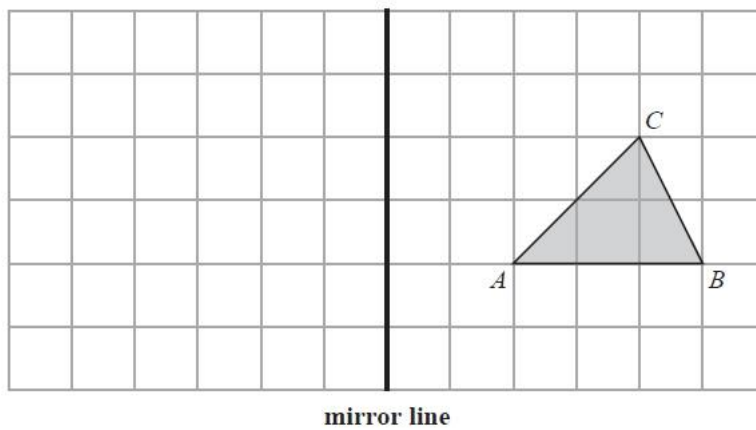
**Q2.**



Reflect the shaded shape **X** in the mirror line.

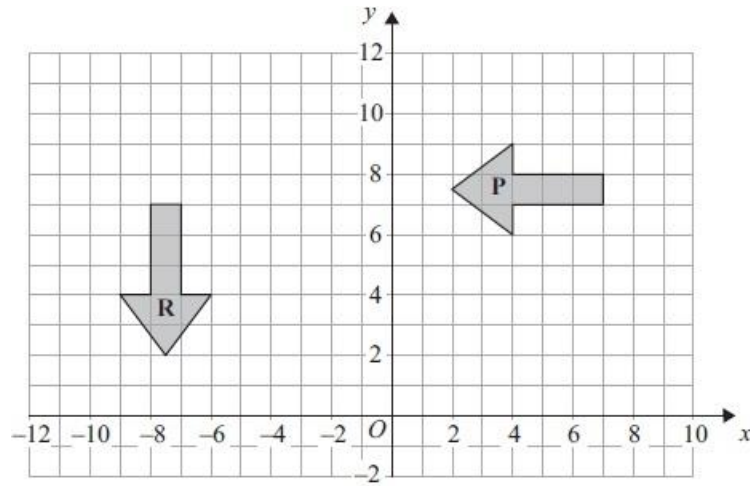
**(2 marks)**

**Q3.**



Reflect triangle *ABC* in the mirror line.

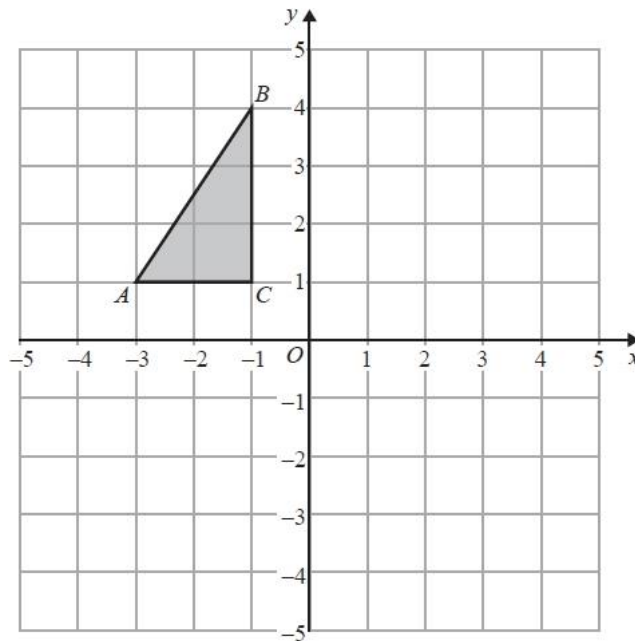
**(2 marks)**



On the grid, reflect shape **P** in the *y*-axis.

(2 marks)

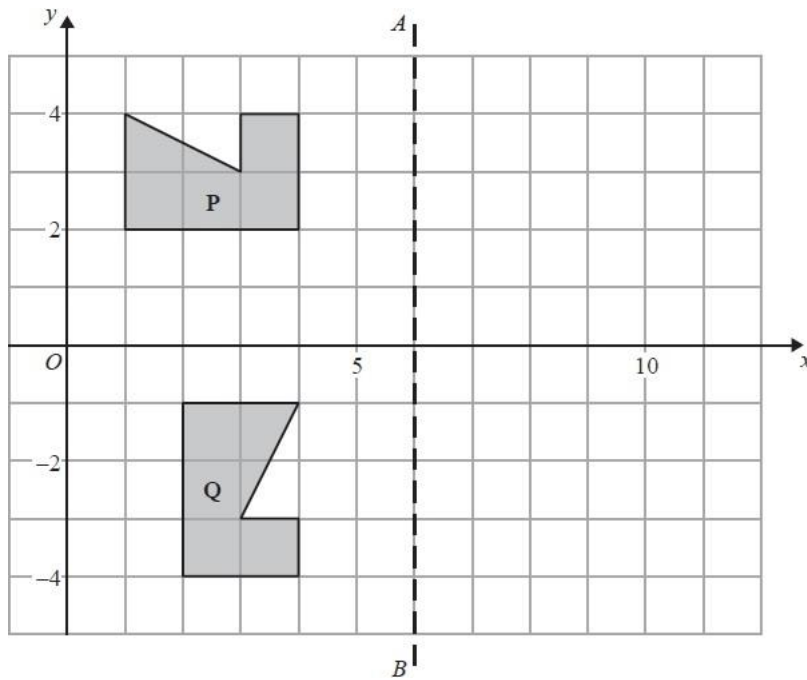
The diagram shows triangle *ABC* drawn on a centimetre grid.



Reflect triangle *ABC* in the *x*-axis.

(1 mark)

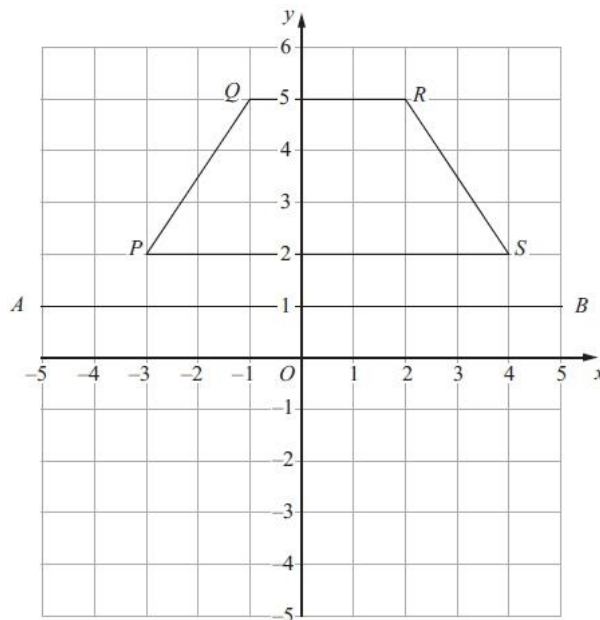
The diagram shows a shape **P**, a shape **Q** and a line **AB**.



Reflect shape **P** in the line **AB**.

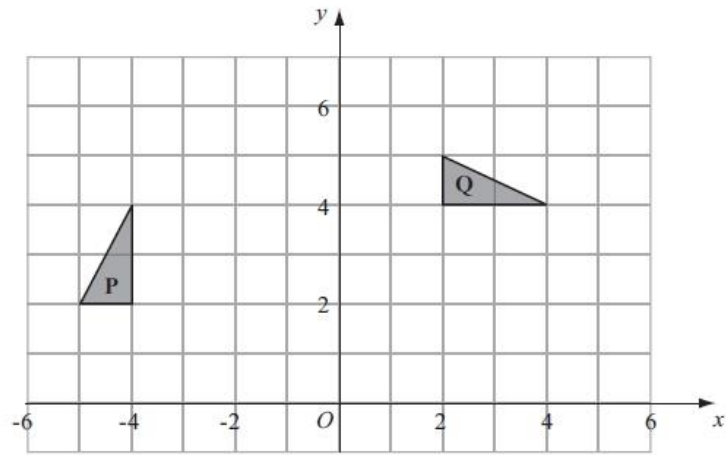
(2 marks)

The diagram shows a trapezium **PQRS** and a line **AB** on a centimetre grid.



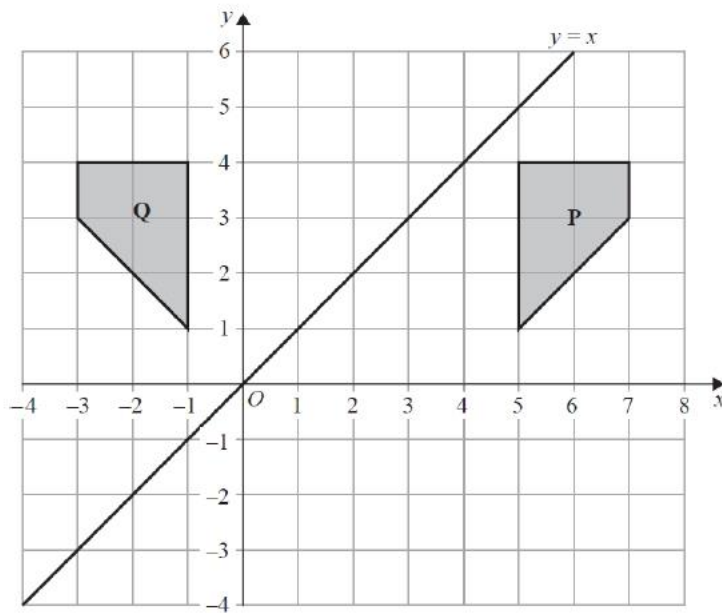
Reflect the trapezium **PQRS** in the line **AB**.

(2 marks)



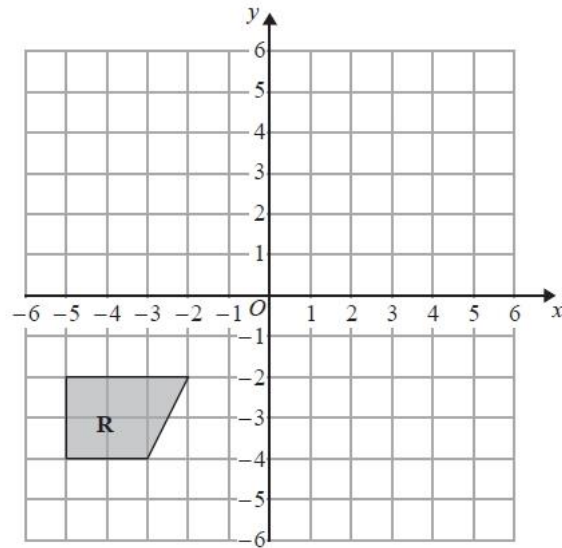
Reflect triangle **Q** in the line  $y = x$ .  
Label the new triangle **R**.

(2 marks)



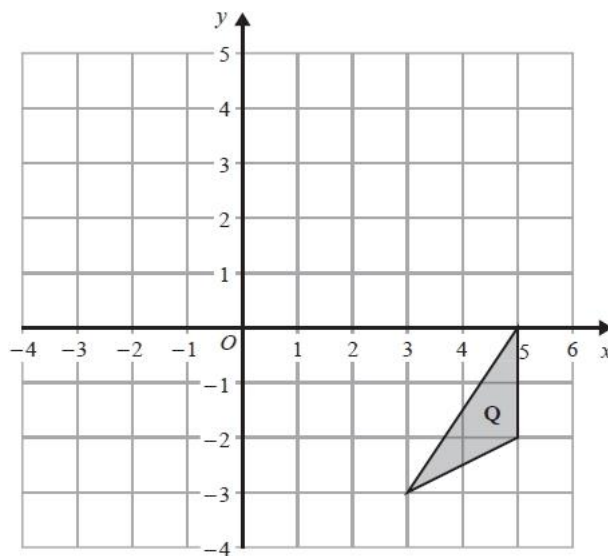
Reflect the shape **Q** in the line  $y = x$ .  
Label the new shape **R**.

(2 marks)



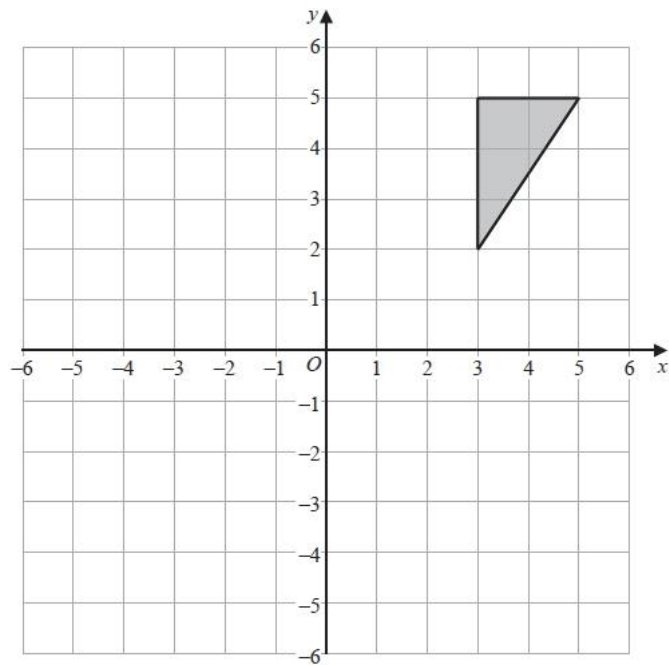
On the grid above, reflect shape **R** in the line  $y = -x$

(2 marks)



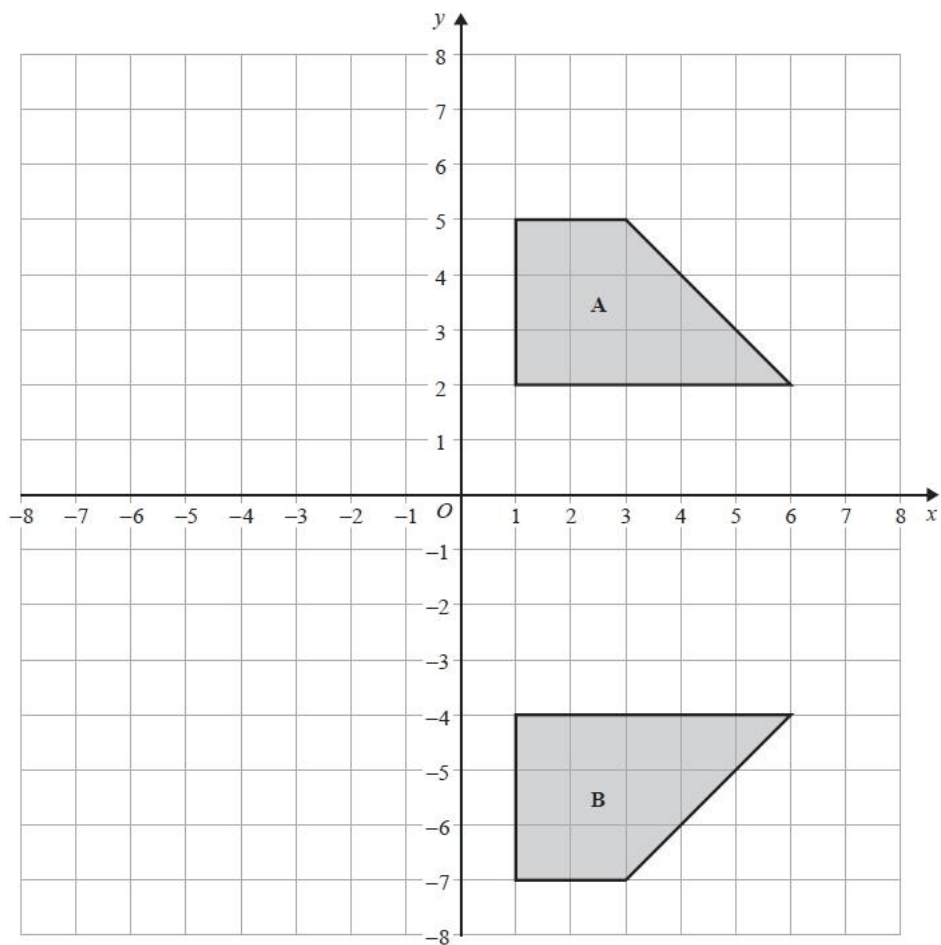
(c) On the grid, reflect triangle **Q** in the line  $x = 1$

(2 marks)



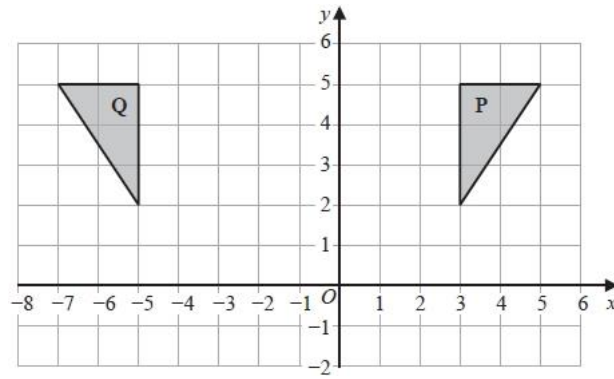
Reflect the shaded triangle in the line  $y = 1$

(2 marks)



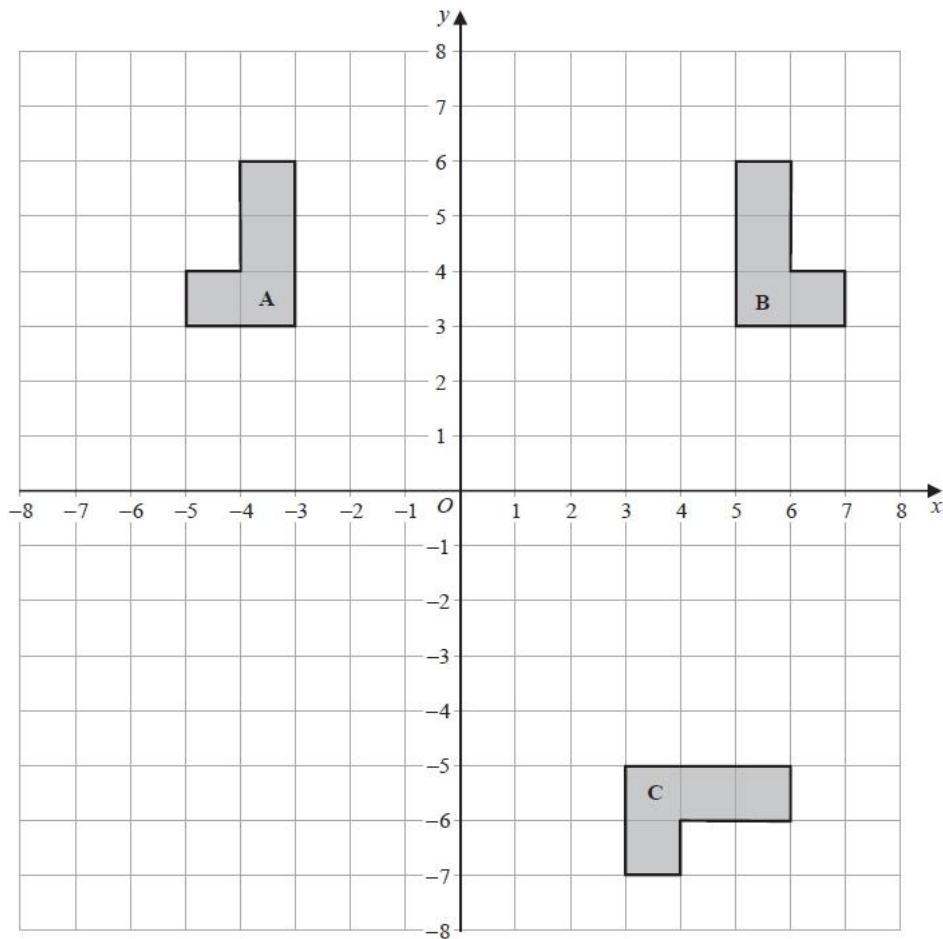
(a) Describe fully the single transformation that maps shape **A** onto shape **B**.

(2 marks)



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

(2 marks)



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

(2 marks)