

Name: \_\_\_\_\_

## ASM Tuition Academy

### TRANSLATIONS

#### Instructions:

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided - there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all you're working out**.

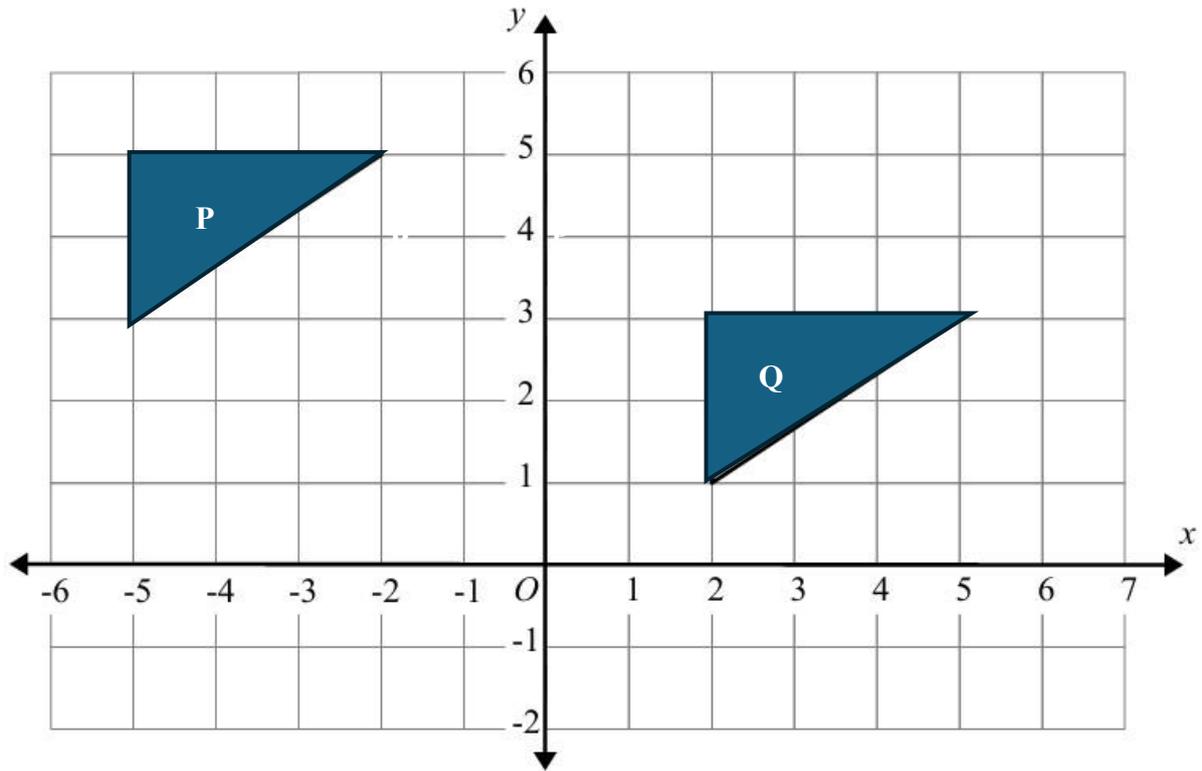
#### Information:

- The marks for each question are shown in brackets  
- use this as a guide as to how much time to spend on each question.

#### Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.

Q1.

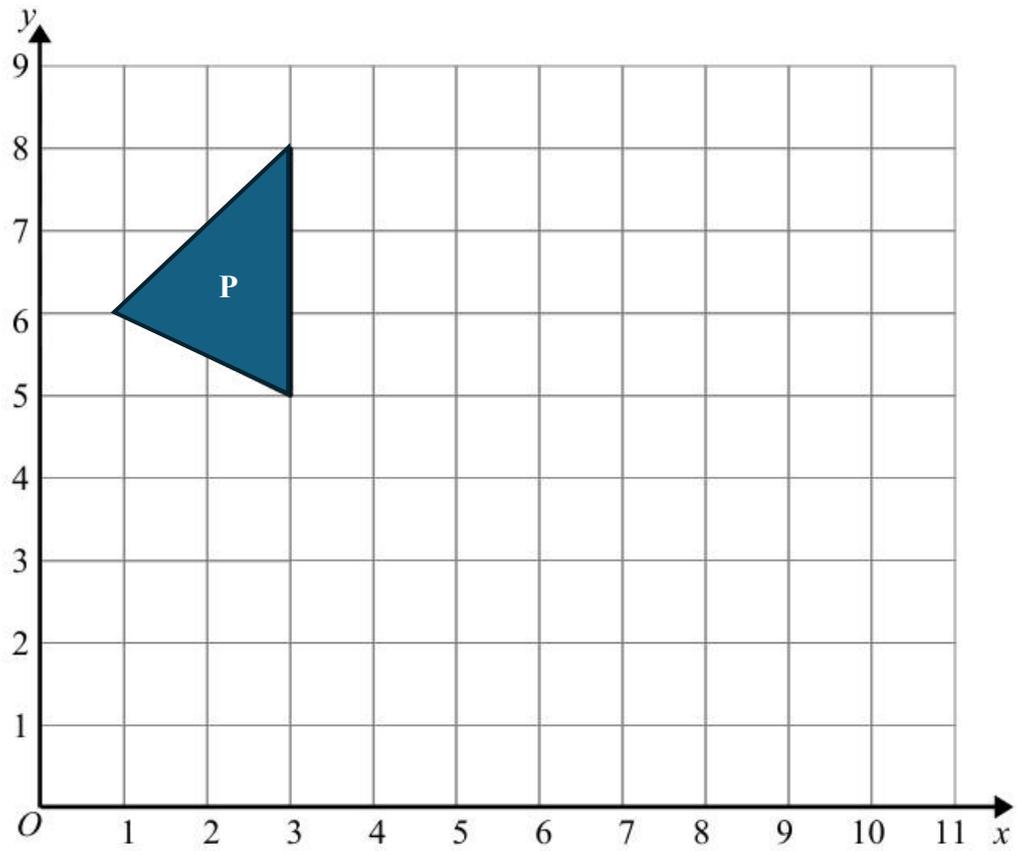


Describe fully the single transformation that maps triangle P on triangle Q.

(Total for question 1 is 2 marks)

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Q2.

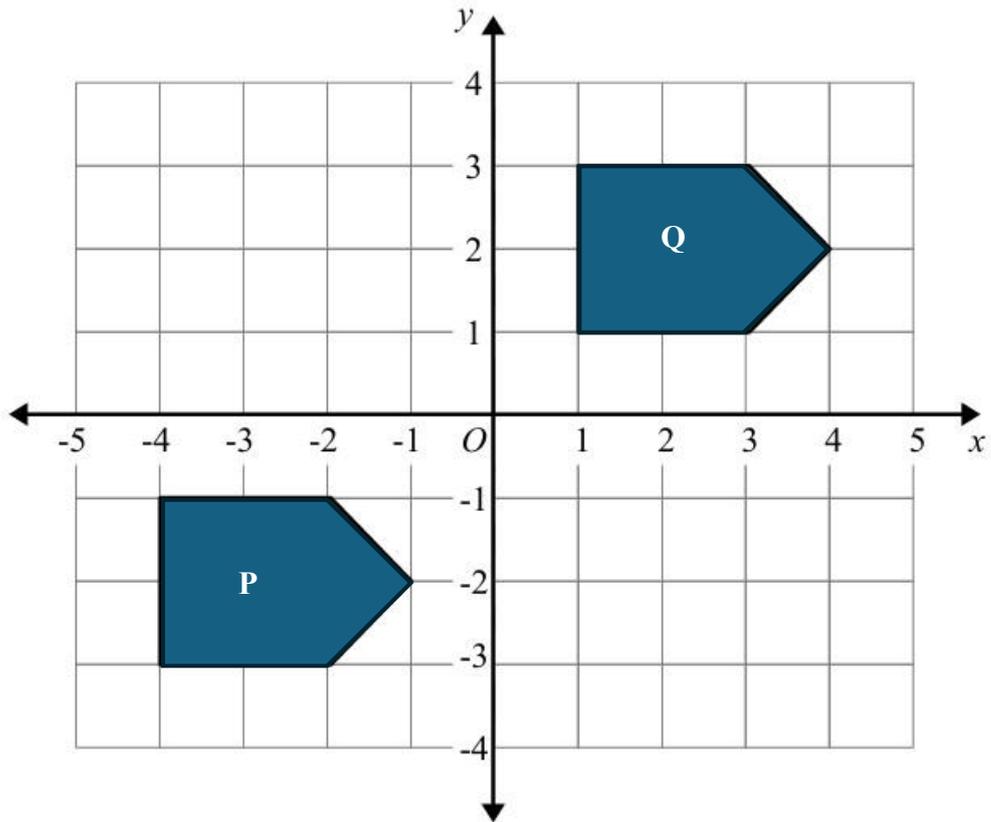


Translate triangle A by the vector  $\begin{pmatrix} 5 \\ -3 \end{pmatrix}$ .

**(Total for question 2 is 2 marks)**

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Q3.

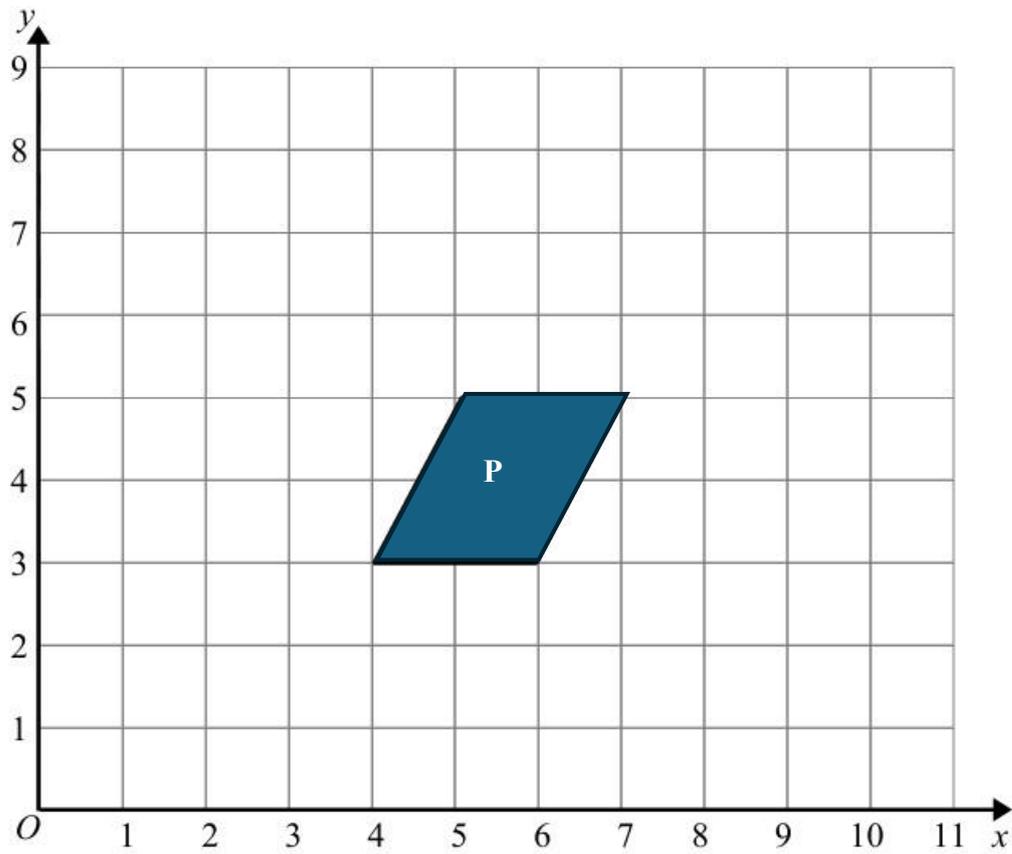


Describe fully the single transformation that maps shape P onto shape Q.

(Total for question 3 is 2 marks)

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Q4.

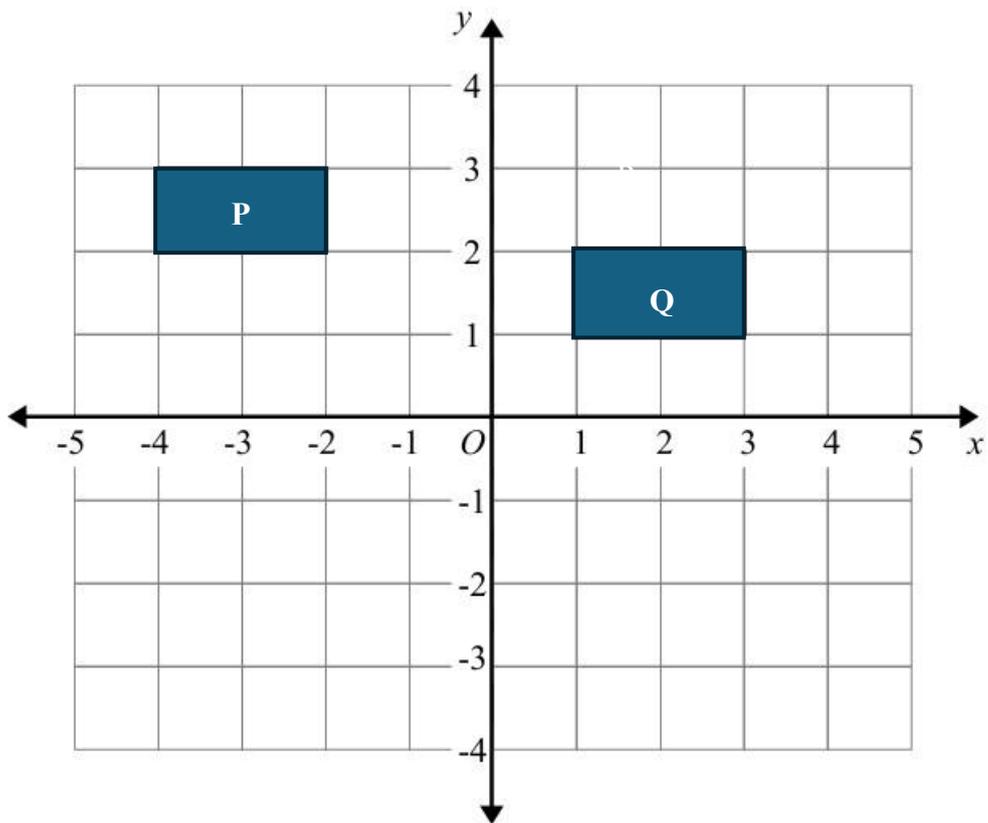


Translate shape P by the vector  $\begin{pmatrix} -2 \\ 3 \end{pmatrix}$ .

(Total for question 4 is 2 marks)

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Q5.



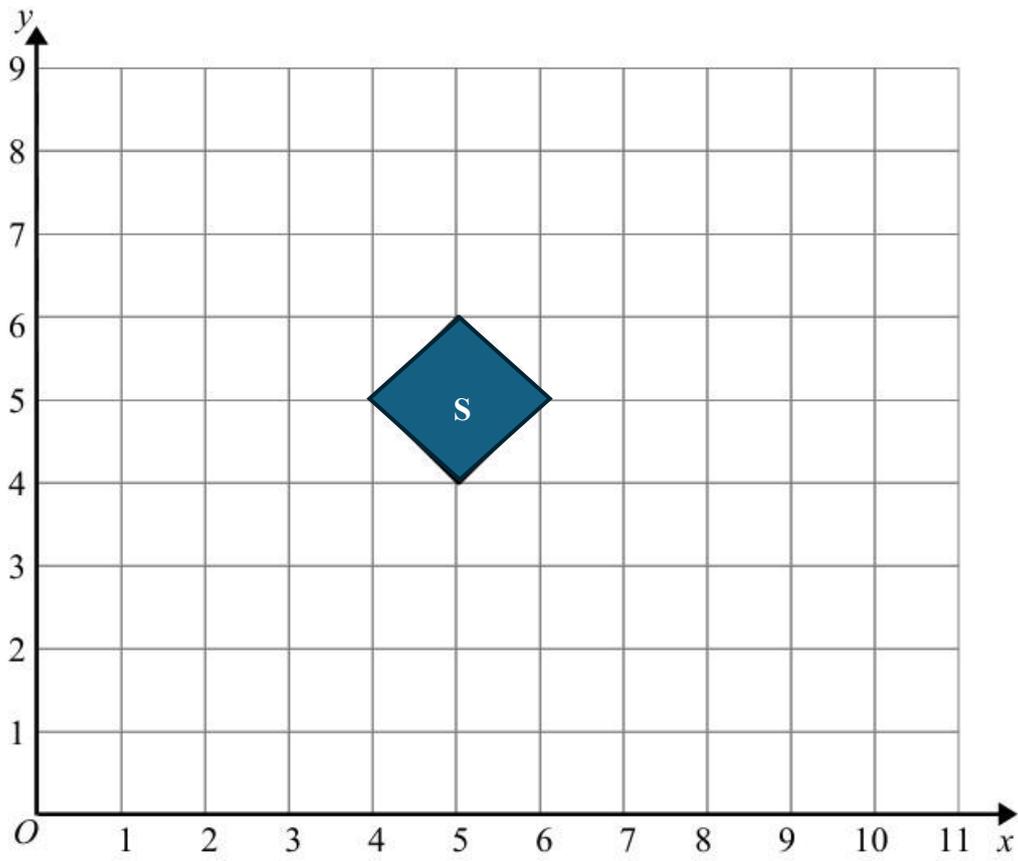
Describe fully the single transformation that maps shape P onto shape Q.

(Total for question 5 is 2 marks)

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2 marks)

Q6.

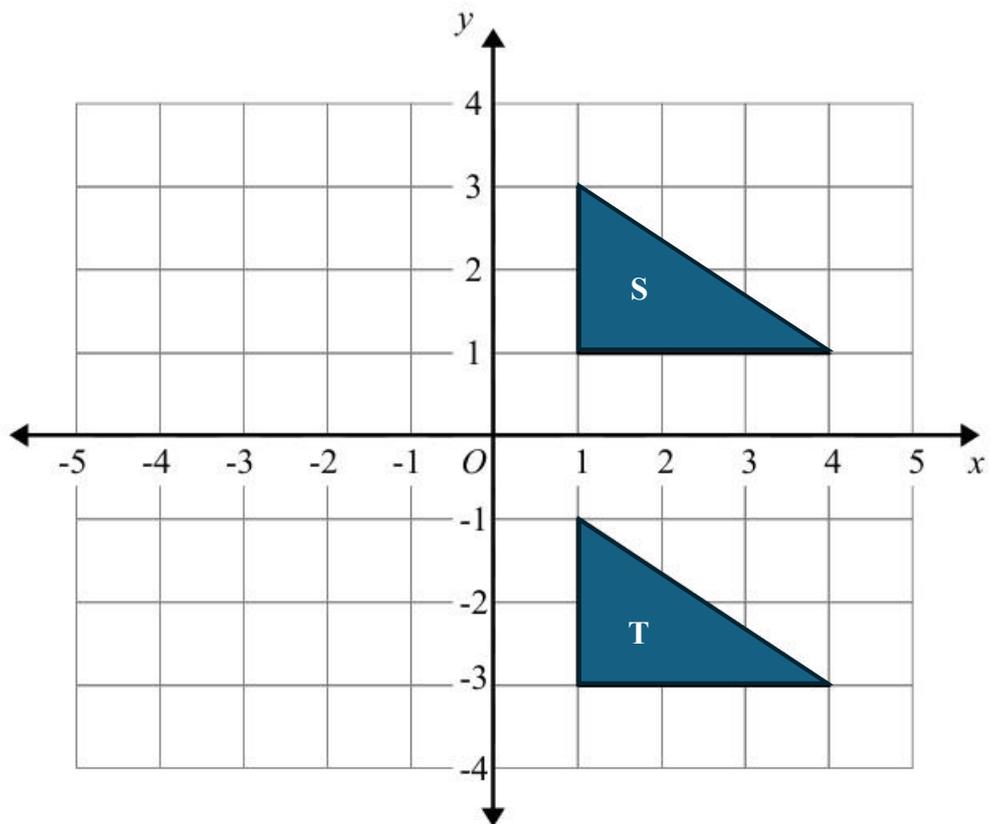


Translate shape S by the vector  $\begin{pmatrix} -3 \\ -1 \end{pmatrix}$ .

**(Total for question 6 is 2 marks)**

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Q7.

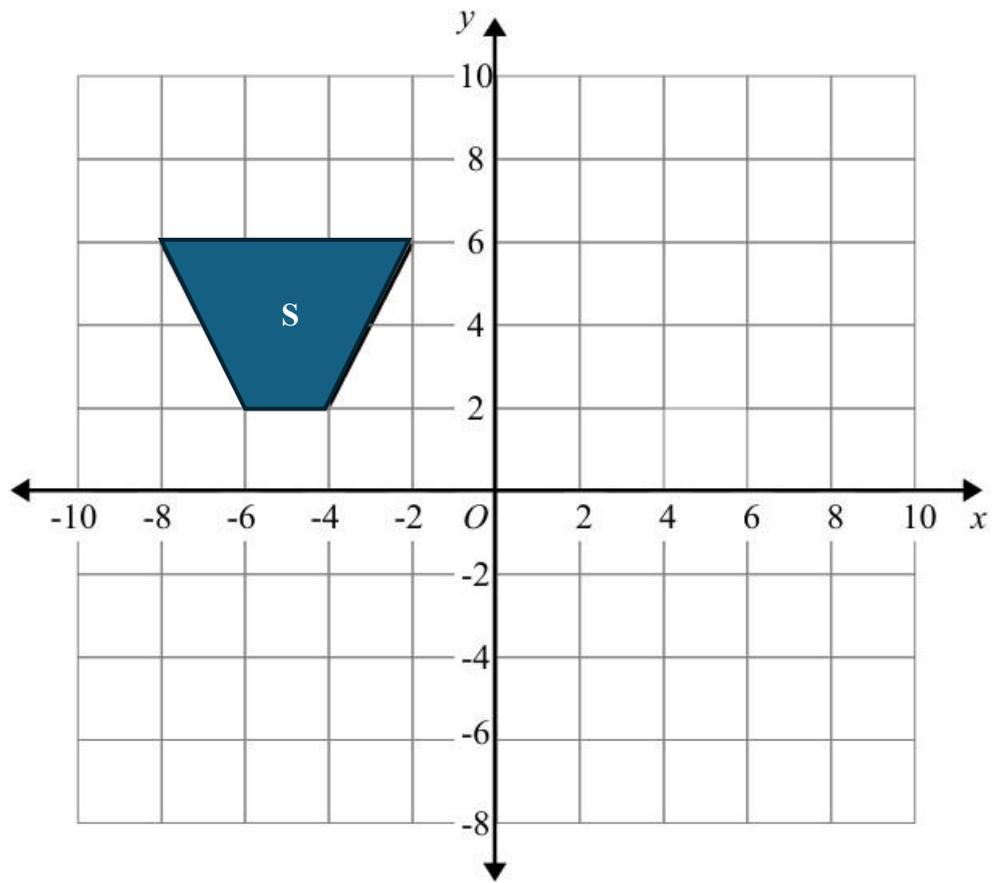


Describe fully the single transformation that maps triangle S on triangle T.

**(Total for question 7 is 2 marks)**

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Q8.



Translate shape S by the vector  $\begin{pmatrix} 4 \\ -1 \end{pmatrix}$ .

(Total for question 8 is 2 marks)

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