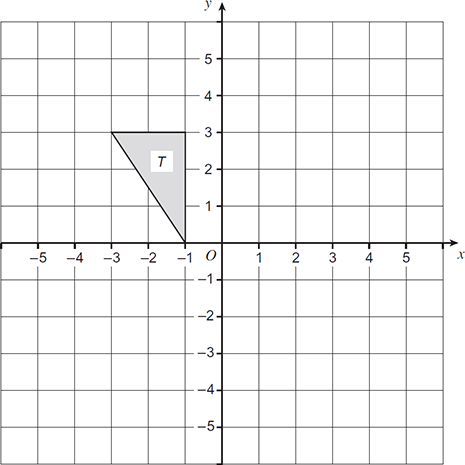
**End of Unit Test** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

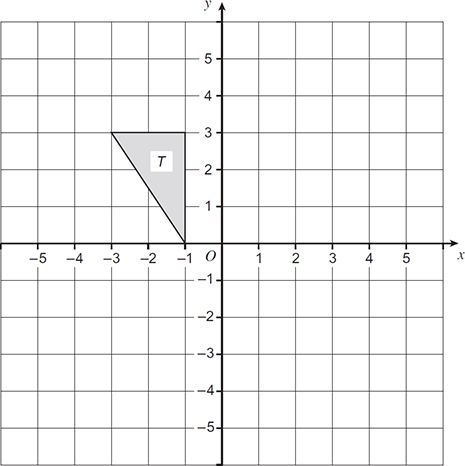
**Transformations - FOUNDATION**

1) (a) Translate triangle *T* by the vector   



**(2)**

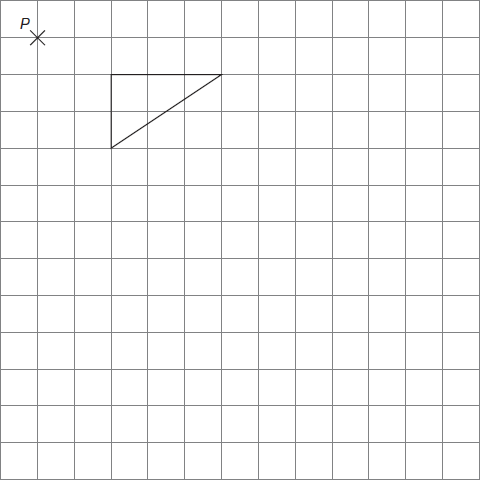
(b) Reflect triangle *T* in the line *y* = −1



**(2)**

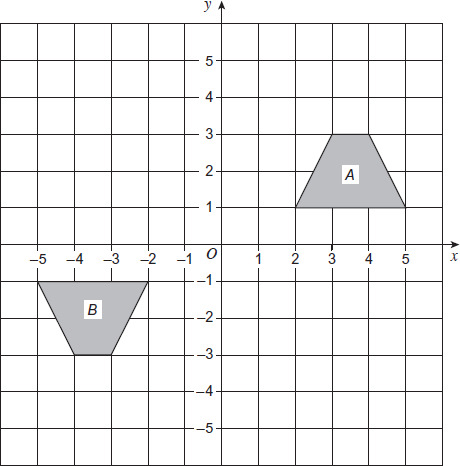
**(Total 4 marks)**

2) (a) Enlarge this shape by scale factor 2 with centre of enlargement point *P*.



**(3)**

(b) Describe fully the **single** transformation that maps shape *A* to shape *B*.



…………………………………………………………………………………………………..

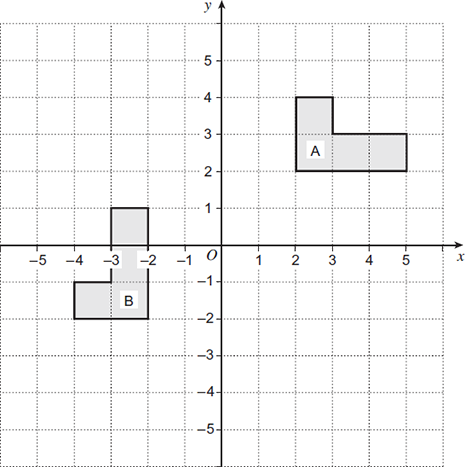
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**(3)**

**(Total 6 marks)**

3) Shapes A and B are shown on the grid.



(a) Reflect shape A in the line *y* = 1

**(2)**

(b) Describe fully the **single** transformation that maps shape A to shape B.

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**(3)**

**(Total 5 marks)**

4) Here are two column vectors.

**f** = **g** =

Work out     3**f** − 2**g**

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Answer ...................................................................................

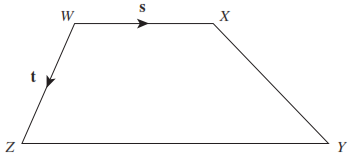
**(Total 2 marks)**

5)*WXYZ* is a trapezium.

 = **s**

**** = **t**

*ZY : WX* = 3 : 2



(a) Write vector in terms of **s**

…………………………………………………………………………………………………..

…………………………………………………………………………………………………..

Answer ......................................................................

**(1)**

(b) Work out vector in terms of **s** and **t**Give your answer in its simplest form.

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Answer ......................................................................

**(2)**

**(Total 3 marks)**

**(Total for test = 20 marks)**