WORKSHEET

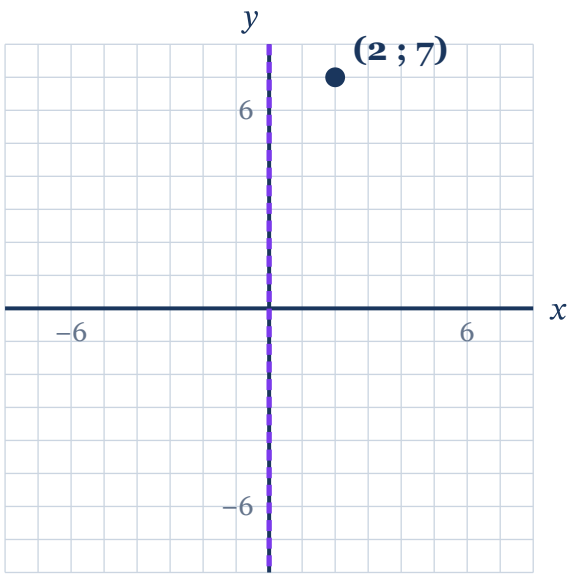
Name: ..... Class: .....

Date: .....

MARK ____ / 20

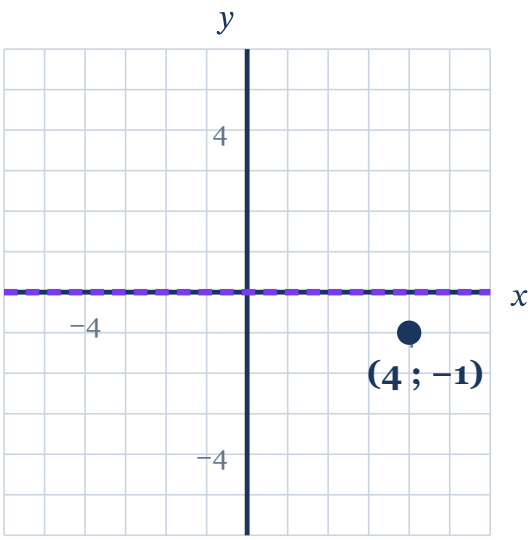
Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Reflect $(2\ ;\ 7)$ in the y-axis. *(reflect)* (1)



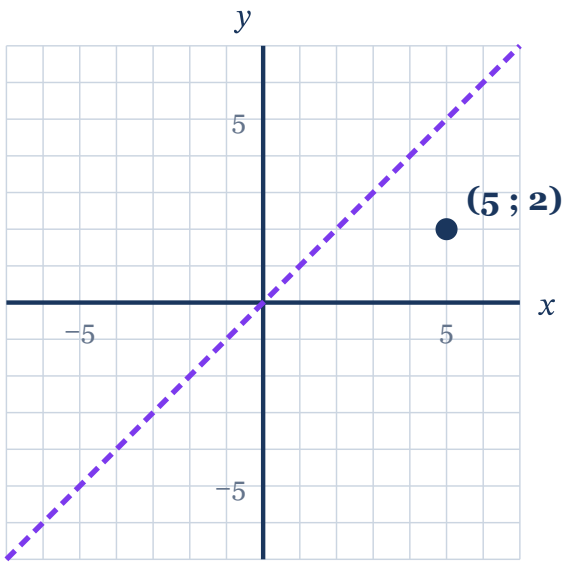
reflect in the y-axis (dashed)

2 Reflect $(4\ ;\ -1)$ in the x-axis. *(reflect)* (1)



reflect in the x-axis (dashed)

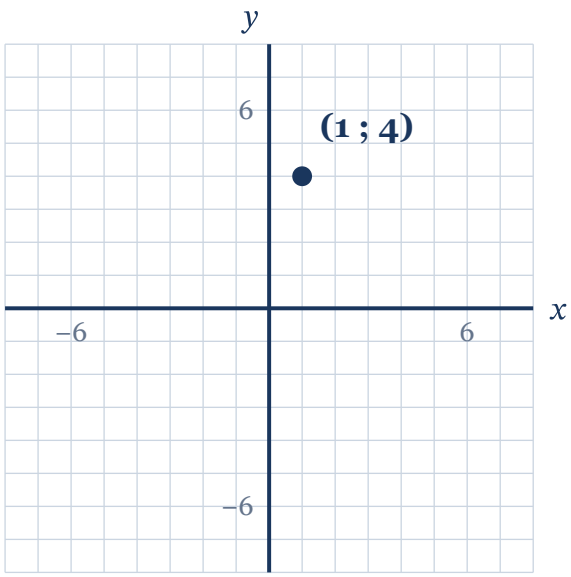
3 Reflect $(5\ ;\ 2)$ in the line $y = x$. *(reflect)* (1)



reflect in the line $y = x$ (dashed)

4 Reflect $(-3\ ;\ 6)$ in the y-axis. *(reflect)* (1)

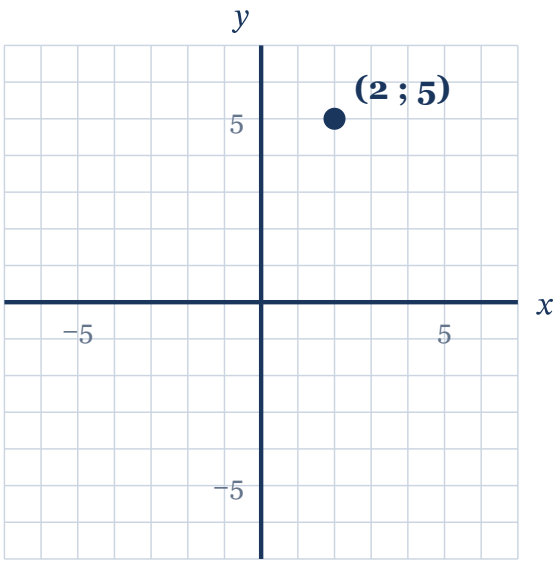
5 Translate $(1\ ;\ 4)$ by 5 right and 2 up. *(translate)* (1)



translate 5 right, 2 up

6 Translate $(3\ ;\ -2)$ by 2 left and 3 up. *(translate)* (1)

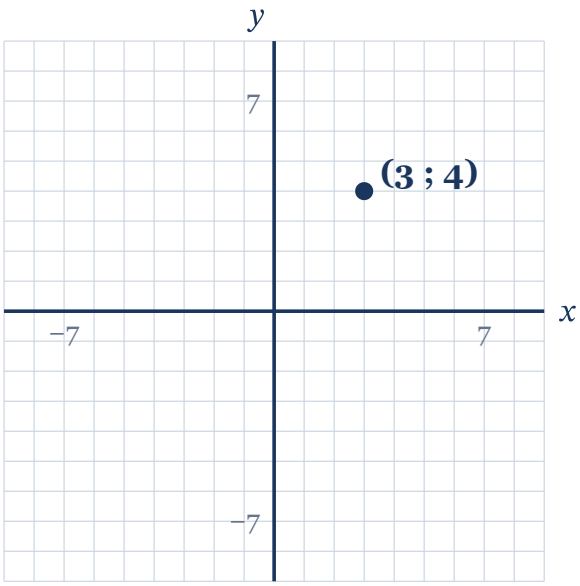
7 Rotate $(2\ ;\ 5)$ by $180°$ about the origin. *(rotate)* (1)



rotate 180° about the origin

8 Rotate $(-4\ ;\ 1)$ by $180°$ about the origin. *(rotate)* (1)

9 Enlarge $(3\ ;\ 4)$ by scale factor 2 from the origin. *(enlarge)* (1)



enlarge by factor 2 from the origin

10 Enlarge $(4\ ;\ 6)$ by scale factor $\frac{1}{2}$ from the origin. *(reduce)* (2)

11 Write down the number of lines of symmetry of a square, a rectangle and a parallelogram. (3)

12 Explain why a diagonal of a rectangle is NOT a line of symmetry. (2)

13 How many lines of symmetry does a regular hexagon have, and how many does an isosceles triangle have? (2)

14 A parallelogram has no lines of symmetry but still looks balanced. Explain. (2)

TOTAL: 20 marks

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