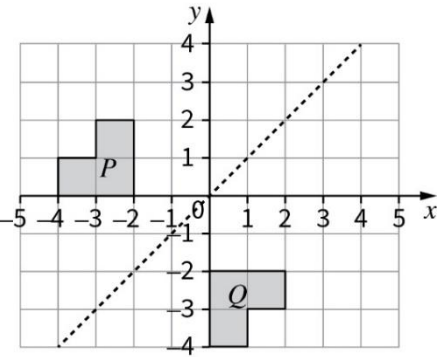
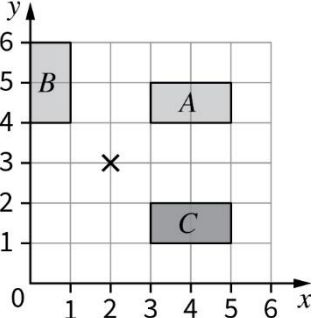


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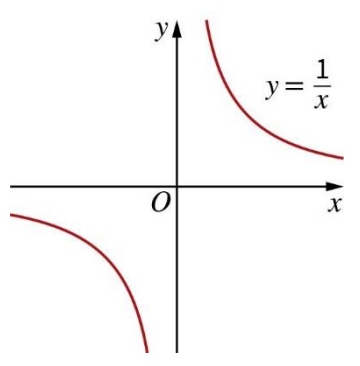
Chapter 23 Transformations

Question	Answer	Extra information	Marks
23.1 (a)		Image drawn with correct size and orientation	1
23.1 (b)	$y = 4$		1
23.2	Reflection in the line $x = -1$	'reflection' or ' $x = -1$ ' Fully correct	1 1

Question	Answer	Extra information	Marks
23.3 (a)		Image drawn with correct size and orientation	1
23.3 (b)	$y = x$		1
23.4	$(-2, -2)$		1
23.5 (a)		Image drawn with correct size and orientation	1
23.5 (b)	Rotation of 180° about the point $(4, 3)$	Rotation of 180° about $(4, 3)$	1 1

Question	Answer	Extra information	Marks
23.6 (a)		Triangle drawn with correct size and orientation	1
23.6 (b)	Triangle <i>T</i>		1
23.7			1

Question	Answer	Extra information	Marks
23.8	Shape <i>B</i>		1
23.9	Enlargement by scale factor 3, with centre of enlargement at $(-2, 0)$	Enlargement Scale factor 3 $(-2, 0)$	1 1 1
23.10 (a) (b)		(a) Any enlargement with scale factor 2 Correct position of triangle. (b) Any enlargement with scale factor 0.5 Correct position of triangle.	1 1 1 1

Question	Answer	Extra information	Marks
23.11	<p>Multiplier for 3% increase is 1.03</p> <p>Let the original amount be x.</p> $x \times 1.03 = 711.22$ $x = 711.22 \div 1.03$ $x = 690.50485\dots$ <p>The original amount was £690.50 (2 dp)</p>	$x \times 1.03 = 711.22$ or equivalent Correct answer	<p>1</p> <p>1</p>
23.12		Either branch drawn (must not touch axes) Fully correct	<p>1</p> <p>1</p>