

Rotations Past Paper Questions (MS)



Q1.

	Working	Answer	Mark	Notes
(a)			2	M1 for any 1 correct line of symmetry allow extras A1 for all 4 lines and no extras
(b)		2	1	B1 cao
(c)		70	2	M1 for 7×10 A1 for 70

Q2.

Question	Working	Answer	Mark	Notes
(a)		1	1	B1 cao
(b)(i)		Rhombus	2	B1 for rhombus (accept parallelogram, trapezium or kite)
(ii)		2		B1 cao

Q3.

Question	Working	Answer	Mark	Notes
		Rotation 90° clockwise centre (1,1)	3	B1 for rotation B1 for 90° clockwise or 270° anticlockwise B1 for (1,1) (B0 for any combination of transformations)

Q4.

Question	Working	Answer	Mark	Notes
		Rotation 180° Centre (3, 3) or Enlargement Scale factor -1 Centre (3, 3)	3	B1 for rotation B1 for 180° B1 for (3, 3) OR B1 for enlargement B1 for scale factor -1 B1 for (3, 3) B0 for a combination of transformations



Q5.

Paper 1MA1: 1F			
Question	Working	Answer	Notes
		Rotation of 90° clockwise about (0,0)	M1 For two of 'rotation', (0,0), 90° clockwise oe A1 Correct transformation

Q6.

Question	Working	Answer	Mark	Notes
		Rotation about (2,1) through 180°	3	B1 rotation B1 about (2,1) B1 through 180° Or B2 enlargement scale factor -1 B1 about (2,1) Note Award no marks if more than one transformation is given

Q7.

Question	Working	Answer	Mark	Notes
(a)		2 lines of symmetry drawn	2	B2 for fully correct answer accept freehand lines (B1 for a correct line of symmetry drawn – ignore extra lines)
(b)		6	1	B1 6, six

Q8.

Paper 1MA1: 1F			
Question	Working	Answer	Notes
		rotation	M1 for triangle in correct orientation or rotation 90° anticlockwise A1 cao



Q9.

PAPER: IMA0_1F				
Question	Working	Answer	Mark	Notes
		Shape drawn	2	B2 for shape with vertices at (0, -1), (-1, -3), (-2, -3), (-2, -1) (B1 for rotation of 180° about the wrong centre)

Q10.

Question	Answer	Mark	Mark scheme	Additional guidance
	Rotation drawn	B2 (B1	correct shape drawn at (2, -1), (2, -4), (4, -2), (4, -1) for a correct shape drawn clockwise 90° about (0,0) or a shape drawn in the correct quadrant with the correct orientation or a shape with at least 3 vertices correct	

Q11.

Question	Working	Answer	Mark	Notes
(a)		Shape drawn	M1 A1	shape drawn in correct orientation at (4, 5) (3, 7) (7, 7) cao
(b)		description	B1	fit for rotation, 90° anticlockwise, centre (5, 4) oe

Q12.

Question	Answer	Mark	Mark scheme	Additional guidance
	Shape drawn	B2 (B1	for shape with vertices at (4, -3), (5, -4), (5, -5), (4, -5) for rotation of 180° about wrong centre)	Shape does not have to be shaded. Allow some tolerance on vertices as long as they are nearest to the desired points. This is shown by the orientation of the shape.