

Question	Answer	Marks	Part marks
1(a)(i)	$600 \div (11 + 9) \times 11$ [=330] with no errors seen	M1	Could be in separate steps
1(a)(ii)	270	1	
1(b)(i)	372 <i>cao nfw/w</i>	3	B2 for answer 371.7... or M1 for $330 \times \left(1 + \frac{1.5}{100}\right)^8$ <i>oe</i> not spoiled After zero scored, SC1 for answer 42 or 41.7...
1(b)(ii)	12.6 or 12.7 or 12.63 to 12.73	2	M1 for $\frac{\text{their (b)(i)} - 330}{330}$ or $\frac{\text{their (b)(i)}}{330} \times 100$ <i>soi</i> by 112.7 or 113 After zero scored, SC1 for answer 12%
1(c)(i)	$\frac{99}{280}$ <i>cao final answer</i>	1	
1(c)(ii)	27.5[0]	3	M2 for $24.75 + \frac{100 - 10}{100}$ <i>oe</i> or M1 for recognising 24.75 as 90[%] <i>oe</i>
1(d)(i)	32 <i>cao</i>	2	M1 for $\left(1 - \frac{20}{100}\right)\left(1 - \frac{15}{100}\right)[x]$ <i>oe</i> or for $0.15 \times 0.8 [x]$ <i>oe</i>
1(d)(ii)	13 <i>cao</i>	2	M1 for $\left(1 - \frac{20}{100}\right)\left(1 - \frac{15}{100}\right) \times x = 40.84 - 32$ <i>oe seen</i> or for $\text{their (d)(i)} + \left(1 - \left(\frac{\text{their (d)(i)}}{100}\right)\right)x = 40.84$ <i>oe</i>
2(a)(i)	Image at (8, 1), (10, 5), (8, 5)	2	B1 for translation $\begin{pmatrix} 6 \\ k \end{pmatrix}$ or $\begin{pmatrix} k \\ -5 \end{pmatrix}$ or 3 correct points not joined
2(a)(ii)	Image at (4, 10), (4, 8), (8, 8)	2	B1 for rotation 90° anticlockwise but different centre or for rotation 90° clockwise about (4, 10) or 3 correct points not joined
2(a)(iii)	Image at (6, 3), (6, 5), (7, 5)	2	B1 for enlargement factor $\frac{1}{2}$ but incorrect centre or 3 correct points not joined
2(b)	Reflection	1	
	$y = -x$ <i>oe</i>	1	If zero scored, M1 for correct use of matrix product

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web 7 stress in crane hook the crane hook is a curved bar subjected to direct stress bending stress 8 resultant stress at inner surface of crane hook 2 mm n mm 2 n mm 9 resultant stress at outer surface of crane hook the resultant stress at inner surface is additional of

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web jan 1 2021 real time pattern of stress concentration in 3d model of crane hook is obtained the stress distribution pattern is verified for its correctness on an acrylic model of crane hook using

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web stress on crane hook depends upon various geometric variables as well as material properties in this analysis the material properties of hook kept constant throughout the analysis and stress is to be reduced by varying different geometric parameters

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web jan 10 2022 the most stressed part of the crane hook is the curved inner surface this surface is considered critical in terms of strength the goal of this paper is to select a suitable crane hook

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web analysis of these hooks to determine the areas with high stress i.e. failure points and those with low stresses these are potential points for material removal weight reduction and reduced costs

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web bending stresses combined with tensile stresses weakening of hook due to wear plastic deformation due to overloading and excessive thermal stresses are some of the other reasons for failure hence continuous use of crane hooks may increase the magnitude of these stresses and eventually result in failure of the hook

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web nov 12 2018 the stress analysis of a hook crane submitted to some vertical static force is a simple fem problem approached here using solidworks simulation software