

1st Kyu Section 1: Calculation Test Answer Keys

1	$(x, y, z) = \left(\pm \frac{7}{\sqrt[3]{924}}, \mp \frac{11}{\sqrt[3]{924}}, \pm \frac{12}{\sqrt[3]{924}} \right)$ <p>(signs correspond respectively)</p>
2	$\frac{1+i}{2}$
3	$\frac{1}{5} \begin{pmatrix} 1 & 4 & 4 \\ 3 & 7 & 12 \\ 1 & -1 & -1 \end{pmatrix}$
4	<p>① $\frac{\partial z}{\partial x} = -\frac{y}{x^2 + y^2}$</p> <hr style="border-top: 1px dashed black;"/> <p>② $2x + 2y - 4z = \pi$</p>

Please fill in the box below.

Name	Examinee Number
Gender (Check the appropriate box) Male <input type="checkbox"/> Female <input type="checkbox"/>	Age
Date of Birth (year) (month) (day)	
Address	

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5	①	5
	②	45
6		$0, \pm i, \pm 2i$
7		$y - 2x = 2(y - x)^2$