

2026 年度入試 数学 (2 月 9 日実施) 解答

以下の解答は、途中経過等を省略しています。

| | | | | | | | | | | | | | | | | | | | | |
|---------|---------------|---|-----|----|----|---|---|---|---------|---|---|---|---|---|--------|---|----|---|----|---|
| 〔Ⅰ〕 | (1) | $a = 0, b = 3, c = -1$ | | | | | | | | | | | | | | | | | | |
| | (2) | <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 5px;">x</td> <td style="padding: 5px;">…</td> <td style="padding: 5px;">-1</td> <td style="padding: 5px;">…</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">…</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">$f'(x)$</td> <td style="padding: 5px;">+</td> <td style="padding: 5px;">0</td> <td style="padding: 5px;">-</td> <td style="padding: 5px;">0</td> <td style="padding: 5px;">+</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">$f(x)$</td> <td style="padding: 5px;">↗</td> <td style="padding: 5px;">極大</td> <td style="padding: 5px;">↘</td> <td style="padding: 5px;">極小</td> <td style="padding: 5px;">↗</td> </tr> </table> <p style="text-align: center; margin-top: 5px;">極小値は 1</p> | x | … | -1 | … | 1 | … | $f'(x)$ | + | 0 | - | 0 | + | $f(x)$ | ↗ | 極大 | ↘ | 極小 | ↗ |
| | x | … | -1 | … | 1 | … | | | | | | | | | | | | | | |
| $f'(x)$ | + | 0 | - | 0 | + | | | | | | | | | | | | | | | |
| $f(x)$ | ↗ | 極大 | ↘ | 極小 | ↗ | | | | | | | | | | | | | | | |
| (3) | $\frac{9}{2}$ | | | | | | | | | | | | | | | | | | | |
| 〔Ⅱ〕 | (1) | $\overrightarrow{AB} = (2, 2s)$ | | | | | | | | | | | | | | | | | | |
| | (2) | $A\left(-3, \frac{3}{2}\right)$ | | | | | | | | | | | | | | | | | | |
| | (3) | $2\sqrt{2}$ | | | | | | | | | | | | | | | | | | |
| 〔Ⅲ〕 | (1) | $0.98^t a$ | | | | | | | | | | | | | | | | | | |
| | (2) | 114 | | | | | | | | | | | | | | | | | | |
| | (3) | 15 | | | | | | | | | | | | | | | | | | |