

| 配点 | | | 配点 | | | |
|----|-----|---|---------------------|-----|---|-----------------------|
| 1 | (1) | 4 | $16x^6$ | (2) | 4 | $-6x^3y^4$ |
| | (3) | 4 | $3x^3-6x^2+18x$ | | | |
| 2 | (1) | 4 | $(x+1)(3x+2)$ | (2) | 4 | $(x+2y)(3x-y)$ |
| | (3) | 4 | $(x^2+1)(x+1)(x-1)$ | | | |
| 3 | (1) | 4 | $x < 6$ | (2) | 4 | $x \leq -4$ |
| | (3) | 4 | $x < -\frac{12}{7}$ | | | |
| 4 | (1) | 4 | 2 | (2) | 4 | $\frac{7}{2}$ |
| 5 | (1) | 4 | $0 \leq x \leq 2$ | (2) | 4 | $x < -1, x > 3$ |
| | (3) | 4 | $x < 3, x > 4$ | (4) | 4 | $x \leq -3, x \geq 3$ |

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|----|-----|---|--------------------|-----|---|------------------------|
| 6 | (1) | 3 | 1 | (2) | 3 | $\sqrt{15} + \sqrt{5}$ |
| 7 | (1) | 4 | 504 | (2) | 4 | 2520 |
| | (3) | 4 | 1 | (4) | 4 | 66 |
| 8 | (1) | 3 | $-9x^8y^7$ | (2) | 3 | $100x^5y^4z^5$ |
| | (3) | 3 | x^8-1 | (4) | 3 | x^4+2x^2+9 |
| 9 | (1) | 3 | $(x+y-2)(x-y+2)$ | (2) | 3 | $(x^2+7)(x+2)(x-2)$ |
| | (3) | 3 | $(x-y)(x+y+z)$ | (4) | 3 | $(x^2+x+1)(x^2-x+1)$ |
| 10 | (1) | 3 | $x=3, \frac{1}{3}$ | (2) | 3 | $-3 < x < 4$ |
| 11 | (1) | 3 | (最大值)49, (最小值)4 | (2) | 3 | (最大值)7, (最小值)-1 |

| | 配点 | | 配点 |
|-----------|-------|--|---|
| 12 | (1) 3 | すべての実数 | (2) 3 $x = \frac{1}{2}$ |
| 13 | (1) 3 | $\cos \theta = \frac{4}{5}, \tan \theta = \frac{3}{4}$ | (2) 3 $\cos \theta = \frac{2\sqrt{5}}{5}$ |
| 14 | (1) 3 | $n = 10$ | (2) 3 $n = 7$ |
| 15 | (1) 3 | 商 $3x - 6$, 余り 16 | (2) 3 商 $2x + 1$, 余り $-x - 2$ |
| 16 | (1) 3 | $\frac{x-4}{x+3}$ | (2) 3 $\frac{2}{x-2}$ |
| 17 | (1) 3 | 25 | (2) 3 $\frac{-3+6i}{5}$ ($-\frac{3}{5} + \frac{6}{5}i$ も可) |
| 18 | (1) 3 | 125 | (2) 3 2 |
| | (3) 2 | $2\sqrt{2}$ | |

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|-----------|-------|---------------------------------|------------------------|
| 19 | (1) 3 | 3 | (2) 3 3 |
| | (3) 2 | 1 | |
| 20 | (1) 3 | $\frac{\sqrt{6} + \sqrt{2}}{4}$ | (2) 3 $-\frac{24}{25}$ |
| 21 | (1) 3 | $y' = 3x^2 + 2$ | (2) 3 $f'(1) = 6$ |
| | (3) 2 | $a = 1$ | |
| 22 | (1) 3 | 12 | (2) 3 $\frac{28}{3}$ |
| | (3) 2 | $\frac{8}{3}$ | |
| 23 | (1) 2 | $\sqrt{145}$ | (2) 2 14 |
| 24 | (1) 2 | 55 | (2) 2 2046 |