

2025年度 一般入学試験前期日程（2月1日）解答〔数学Ⅰ、数学A〕

問題1 (1) $x^4 + 10x^3 + 35x^2 + 50x + 24$

(2) $(x+2)^2(x+5)^2$

(3) $\sqrt{7-2\sqrt{10}} = \sqrt{5} - \sqrt{2}$

問題2 (1) $(x, y) = (7, 5), (8, 4), (9, 3), (10, 2), (11, 1), (12, 0)$

(2) $(x, y) = (8, 4), (9, 3), (10, 2), (11, 1), (12, 0)$

(3) $(x, y) = (1, 11)$

問題3 (1) 6720通り

(2) 1120通り

問題4 (1) $BC = 7$

(2) $BD = 7 \times \frac{3}{8} = \frac{21}{8}$

(3) $AD = \frac{15}{8}$