

# 自動採点用回答用紙

0 1 2 3 4 5 6

(1)

$$C = \begin{pmatrix} 1 & 3 & 5 \\ 7 & 9 & 11 \\ 13 & 15 & 17 \end{pmatrix}$$

よかくと、

$$\begin{aligned} -|C| &= 153 + 429 + 525 \\ &\quad - 585 - 357 - 165 \\ &= 54 \end{aligned}$$

(3)

A から B への道のりの  
総数は  
 ${}_{10}C_5$

のりち., 点, C を通る  
ものは.

$$\begin{aligned} &{}^5C_3 \wedge {}^5C_2 \\ &17 = 17 \text{ 通り} \\ &{}_{10}C_5 - {}^5C_3 \times {}^5C_2 = 152 \end{aligned}$$

3 152

1 54

(2)

$$\begin{aligned} \sum_{k=1}^6 (k + k^2) &= \sum_{k=1}^6 k + \sum_{k=1}^6 k^2 \\ &= \frac{1}{2} \times 6 \times (1+6) \\ &\quad + \frac{1}{6} \times 6 \times (6+1) \times (12+1) \\ &= 112 \end{aligned}$$

(4)



2 112

4 3759