

大問1
数学①

A1,A2	⑨①
A3,A4	④③
A5,A6	⑩⑬
A7	⑫
A8,A9	③④
AX	⑪
B1	①
B2	⑫
B3	⑬
B4	①
B5,B6	⑫⑬
B7	⑫
B8	⑤
B9	④
BX	⑬
C1	③
C2	②
C3	⑭
C4,C5	⑫⑬
C6,C7	②③
C8,C9	⑤⑧
CX	⑭
D1,D2	⑬⑫
D3,D4	①⑨
D5	⑤
D6	⑫
D7,D8	③⑫
D9	⑫
DX	⑨
E1	①
E2	⑭
E3	⑬

大問2
数学②

A1	⑫
A2	②
A3	④
A4	②
A5	⑤
A6	⑱
A7	⑨
A8	⑱
A9	⑦
AX	⑩
B1	③
B2	⑦
B3	⑨
B4	⑦
B5	⑤
B6	⑧
B7,B8	③⑦
B9	⑤
BX	⑱
C1	⑫
C2,C3,C4	⑮⑰⑱
C5	①
C6,C7	⑧⑦
C8,C9	③⑨
CX	⑦
D1,D2	⑦⑪
D3,D4	⑥②
D5,D6	⑩④
D7,D8	②⑤
D9	⑰
DX	⑪
E1	⑦
E2,E3	⑬⑭
E4,E5	⑰⑮
E6	⑰

大問3
数学③

A1	①
A2,A3	④⑮
A4	⑰
A5	⑥
A6	⑦
A7	⑨
A8	⑪
A9,AX	②⑤
B1,B2	②⑤
B3	⑩
B4	⑦
B5	④
B6	⑫
B7	①
B8	⑬
B9	⑰
BX	①
C1	②
C2	①
C3	②
C4	③
C5	④
C6	⑩
C7	⑨
C8,C9	⑦⑫
CX,D1	⑧⑪
D2	⑬
D3	⑭
D4	⑰
D5	⑰

大問4
物理学①

A1	③
A2	⑤
A3	⑧
A4	④
A5	④
A6	②
A7	⑮
A8	⑤
A9	⑨
AX	⑧
B1	⑫
B2	①
B3	②
B4	⑪
B5	⑬
B6	①
B7	⑧
B8	⑬
B9	⑫
BX	⑫
C1	⑬

大問5
物理学②

A1	②
A2	⑤
A3	⑨
A4	⑫
A5	⑧
A6	⑮
A7	⑱
A8	②
A9	⑤
AX	⑨
B1	⑫
B2	③
B3	⑤
B4	⑨
B5	②
B6	⑤
B7	⑦
B8	⑪
B9	⑬

大問6
化学①

A1	⑩
A2	⑥
A3	⑦
A4	④
A5	③
A6	②
A7	③
A8	①
A9	②
AX	④
B1	①
B2	③
B3	②
B4	①
B5	③
B6	⑦
B7	⑧
B8	⑥
B9	④
BX	⑩

大問7
化学②

A1	④
A2	⑥
A3	⑤
A4	①
A5	②
A6	⑤
A7	⑱
A8	②
A9	②
AX	①
B1	①
B2	①
B3	②
B4	⑤
B5	③
B6	⑧
B7	⑤
B8	⑥
B9	⑩
BX	⑭
C1	⑧
C2	①
C3	④
C4	④
C5	⑥
C6	②
C7	②

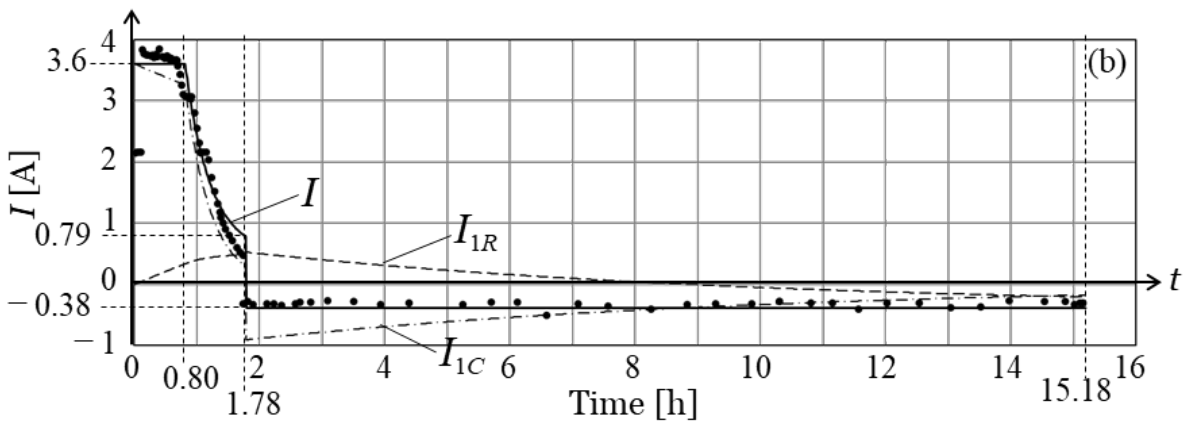
大問8
化学③

A1	③
A2	④
A3	②
A4	⑥
A5	⑨
A6	③
A7	④
A8	②
A9	②
AX	①
B1	③
B2	②
B3	①
B4	①
B5	①
B6	②
B7	①
B8	④
B9	⑥
BX	②
C1	⑥
C2	⑭

記述式 正解例 (例なので全く同じである必要はありません)

大問 1 (数学①)

問 4(1)



大問2 (数学②)

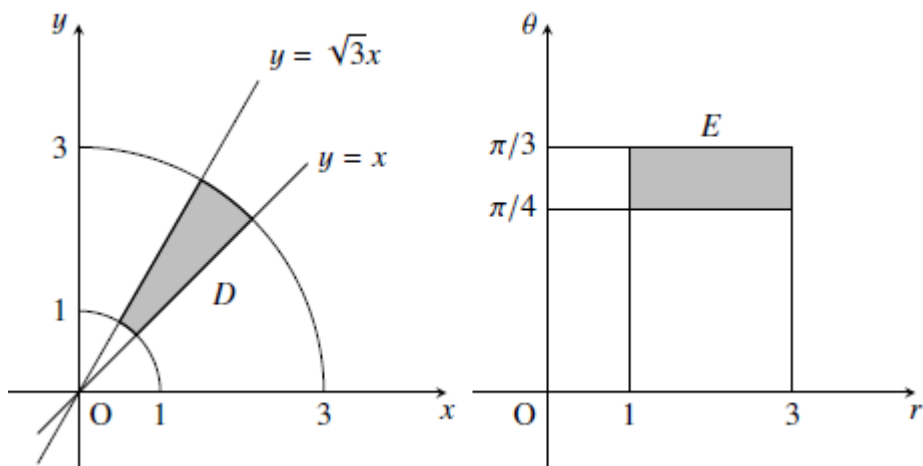
問2(1)

$$\tilde{B} = \begin{matrix} t \\ \left[\begin{array}{c|c|c} \left| \begin{array}{cc} 2 & 3 \\ 0 & 1 \end{array} \right| & - \left| \begin{array}{cc} 0 & 3 \\ 1 & 1 \end{array} \right| & \left| \begin{array}{cc} 0 & 2 \\ 1 & 0 \end{array} \right| \\ \hline - \left| \begin{array}{cc} -1 & 0 \\ 0 & 1 \end{array} \right| & \left| \begin{array}{cc} 1 & 0 \\ 1 & 1 \end{array} \right| & - \left| \begin{array}{cc} 1 & -1 \\ 1 & 0 \end{array} \right| \\ \hline \left| \begin{array}{cc} -1 & 0 \\ 2 & 3 \end{array} \right| & - \left| \begin{array}{cc} 1 & 0 \\ 0 & 3 \end{array} \right| & \left| \begin{array}{cc} 1 & -1 \\ 0 & 2 \end{array} \right| \end{array} \right] \end{matrix} = \begin{matrix} t \\ \begin{bmatrix} 2 & 3 & -2 \\ 1 & 1 & -1 \\ -3 & -3 & 2 \end{bmatrix} = \begin{bmatrix} 2 & 1 & -3 \\ 3 & 1 & -3 \\ -2 & -1 & 2 \end{bmatrix} \end{matrix}$$

また, $|B| = -1$ なので $B^{-1} = |B|^{-1} \tilde{B} = \begin{bmatrix} -2 & -1 & 3 \\ -3 & -1 & 3 \\ 2 & 1 & -2 \end{bmatrix}$

大問3 (数学③)

問1(2)



問3(2)

