

代数学幾何学 (A/B) 計算演習 [問題] (2009/05/14)

問. 次の行列の行列式を求めなさい

Q.1

$$\begin{vmatrix} 2 & 2 \\ 1 & 0 \end{vmatrix}$$

Q.8

$$\begin{vmatrix} -1 & 0 \\ 1 & 2 \end{vmatrix}$$

Q.15

$$\begin{vmatrix} 1 & 2 \\ -1 & 2 \end{vmatrix}$$

Q.2

$$\begin{vmatrix} -1 & 1 \\ 2 & 2 \end{vmatrix}$$

Q.9

$$\begin{vmatrix} -2 & 0 \\ 0 & -2 \end{vmatrix}$$

Q.16

$$\begin{vmatrix} -1 & 2 \\ 0 & 1 \end{vmatrix}$$

Q.3

$$\begin{vmatrix} -2 & -2 \\ 2 & -1 \end{vmatrix}$$

Q.10

$$\begin{vmatrix} -1 & 2 \\ 2 & 2 \end{vmatrix}$$

Q.17

$$\begin{vmatrix} 0 & 0 \\ 2 & 1 \end{vmatrix}$$

Q.4

$$\begin{vmatrix} 2 & 0 \\ 2 & 2 \end{vmatrix}$$

Q.11

$$\begin{vmatrix} 2 & -1 \\ -1 & 0 \end{vmatrix}$$

Q.18

$$\begin{vmatrix} -1 & 1 \\ 1 & 1 \end{vmatrix}$$

Q.5

$$\begin{vmatrix} 1 & 2 \\ 0 & 1 \end{vmatrix}$$

Q.12

$$\begin{vmatrix} 1 & -1 \\ -1 & 2 \end{vmatrix}$$

Q.19

$$\begin{vmatrix} -1 & -1 \\ -1 & 1 \end{vmatrix}$$

Q.6

$$\begin{vmatrix} 1 & 2 \\ 1 & -1 \end{vmatrix}$$

Q.13

$$\begin{vmatrix} -2 & -2 \\ -1 & -2 \end{vmatrix}$$

Q.20

$$\begin{vmatrix} -2 & 2 \\ 1 & 2 \end{vmatrix}$$

Q.7

$$\begin{vmatrix} 0 & 2 \\ -2 & 1 \end{vmatrix}$$

Q.14

$$\begin{vmatrix} 0 & 0 \\ -2 & 2 \end{vmatrix}$$

Q.21

$$\begin{vmatrix} 2 & 1 \\ 2 & 2 \end{vmatrix}$$

代数学幾何学 (A/B) 計算演習 [解答] (2009/05/14)

- A.1 $\begin{vmatrix} 2 & 2 \\ 1 & 0 \end{vmatrix} = -2$
- A.2 $\begin{vmatrix} -1 & 1 \\ 2 & 2 \end{vmatrix} = -4$
- A.3 $\begin{vmatrix} -2 & -2 \\ 2 & -1 \end{vmatrix} = 6$
- A.4 $\begin{vmatrix} 2 & 0 \\ 2 & 2 \end{vmatrix} = 4$
- A.5 $\begin{vmatrix} 1 & 2 \\ 0 & 1 \end{vmatrix} = 1$
- A.6 $\begin{vmatrix} 1 & 2 \\ 1 & -1 \end{vmatrix} = -3$
- A.7 $\begin{vmatrix} 0 & 2 \\ -2 & 1 \end{vmatrix} = 4$
- A.8 $\begin{vmatrix} -1 & 0 \\ 1 & 2 \end{vmatrix} = -2$
- A.9 $\begin{vmatrix} -2 & 0 \\ 0 & -2 \end{vmatrix} = 4$
- A.10 $\begin{vmatrix} -1 & 2 \\ 2 & 2 \end{vmatrix} = -6$
- A.11 $\begin{vmatrix} 2 & -1 \\ -1 & 0 \end{vmatrix} = -1$
- A.12 $\begin{vmatrix} 1 & -1 \\ -1 & 2 \end{vmatrix} = 1$
- A.13 $\begin{vmatrix} -2 & -2 \\ -1 & -2 \end{vmatrix} = 2$
- A.14 $\begin{vmatrix} 0 & 0 \\ -2 & 2 \end{vmatrix} = 0$
- A.15 $\begin{vmatrix} 1 & 2 \\ -1 & 2 \end{vmatrix} = 4$
- A.16 $\begin{vmatrix} -1 & 2 \\ 0 & 1 \end{vmatrix} = -1$
- A.17 $\begin{vmatrix} 0 & 0 \\ 2 & 1 \end{vmatrix} = 0$
- A.18 $\begin{vmatrix} -1 & 1 \\ 1 & 1 \end{vmatrix} = -2$
- A.19 $\begin{vmatrix} -1 & -1 \\ -1 & 1 \end{vmatrix} = -2$
- A.20 $\begin{vmatrix} -2 & 2 \\ 1 & 2 \end{vmatrix} = -6$
- A.21 $\begin{vmatrix} 2 & 1 \\ 2 & 2 \end{vmatrix} = 2$