

解答

1. (1) 2 (2) 27

2. (1) 15 (2) 16

解説

1. (1) $\begin{vmatrix} 4 & 5 \\ 2 & 3 \end{vmatrix} = 4 \times 3 - 5 \times 2 = 2$

(2) $\begin{vmatrix} 2 & 1 & 3 \\ 5 & 2 & 1 \\ 2 & 3 & 2 \end{vmatrix} = 2 \times 2 \times 2 + 1 \times 1 \times 2 + 3 \times 5 \times 3 - 2 \times 1 \times 3 - 1 \times 5 \times 2 - 3 \times 2 \times 2 = 27$

2. (1) $\begin{vmatrix} 2 & 2 & 1 \\ 1 & 3 & 4 \\ 2 & 1 & 3 \end{vmatrix} = 2 \times 3 \times 3 + 2 \times 4 \times 2 + 1 \times 1 \times 1 - 2 \times 4 \times 1 - 2 \times 1 \times 3 - 1 \times 3 \times 2 = 15$

(2) $\begin{vmatrix} 4 & 5 & 1 \\ 0 & 5 & 2 \\ 0 & 3 & 2 \end{vmatrix} \overset{\substack{\text{教科書} \\ 91 \text{ ページ} \\ \text{例題 3}}}{=} 4 \begin{vmatrix} 5 & 2 \\ 3 & 2 \end{vmatrix} = 4(5 \times 2 - 2 \times 3) = 16$