

在籍番号		氏名	
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[1] 次の行列式を計算せよ.

$$(1) \begin{vmatrix} 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 \\ 3 & 3 & 3 & 3 \end{vmatrix} = \boxed{}$$

$$(2) \begin{vmatrix} 2 & 2 & 2 & 2 \\ 0 & 2 & 2 & 2 \\ 0 & 0 & 2 & 2 \\ 0 & 0 & 0 & 2 \end{vmatrix} = \boxed{}$$

$$(3) \begin{vmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{vmatrix} = \boxed{}$$

$$(4) \begin{vmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{vmatrix} = \boxed{}$$

$$(5) \begin{vmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \\ 1 & 1 & 1 \end{vmatrix} = \boxed{}$$

$$(6) \begin{vmatrix} 3 & 2 & 1 \\ 1 & -2 & -1 \\ -1 & 1 & 1 \end{vmatrix} = \boxed{}$$

$$(7) \begin{vmatrix} 1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 \\ 1 & 0 & 0 & 1 \end{vmatrix} = \boxed{}$$

$$(8) \begin{vmatrix} 1 & 1 & 1 & 1 \\ 2 & 2 & 2 & 2 \\ 3 & 3 & 3 & 3 \\ 4 & 4 & 4 & 4 \end{vmatrix} = \boxed{}$$

$$(9) \begin{vmatrix} 1 & 2 & 3 & -1 \\ -3 & 2 & 7 & 11 \\ 0 & 5 & 9 & 16 \\ -2 & 0 & 1 & 6 \end{vmatrix} = \boxed{}$$

$$(10) \begin{vmatrix} 1 & 10 & 100 & 1000 \\ 0 & 10 & 100 & 1000 \\ -1 & 10 & 100 & 1000 \\ 0 & 10 & 100 & 1000 \end{vmatrix} = \boxed{}$$