線形代数「行列の積と行列式」解答

$\det(A) = 7$
$\det(B) = 12$
$\det(C) = -8$

$$AB = \begin{pmatrix} -10 & -8 & -12 \\ -5 & 6 & -8 \\ 14 & 1 & 18 \end{pmatrix}$$
$$BC = \begin{pmatrix} -16 & -5 & -12 \\ 9 & 8 & 3 \\ 13 & 15 & 3 \end{pmatrix}$$
$$CA = \begin{pmatrix} -2 & -1 & -1 \\ 10 & -5 & -2 \\ 4 & -4 & -5 \end{pmatrix}$$

$\det(AB) = 84$
$\det(BC) = -96$
$\det(CA) = -56$