Let $A = \begin{bmatrix} 5 & -2 \\ -4 & -3 \end{bmatrix}$.

(a) Find the determinant of A.

$\det(A) = \boxed{}$

(b) Find the matrix of cofactors of A.

$C = \begin{bmatrix} \boxed{} & \boxed{} \\ \boxed{} & \boxed{} \end{bmatrix}$

(c) Find the adjugate of A.

$\mathrm{adj}(A) = \begin{bmatrix} \boxed{} & \boxed{} \\ \boxed{} & \boxed{} \end{bmatrix}$

(d) Find the inverse of A.

$A^{-1} = \begin{bmatrix} \boxed{} & \boxed{} \\ \boxed{} & \boxed{} \end{bmatrix}$

Let $A = \begin{bmatrix} 5 & -2 \\ -4 & -3 \end{bmatrix}$.

(a) Find the determinant of A.

$\det(A) = \boxed{-23}$

(b) Find the matrix of cofactors of A.

$C = \begin{bmatrix} \boxed{-3} & \boxed{4} \\ \boxed{2} & \boxed{5} \end{bmatrix}$

(c) Find the adjugate of A.

$\mathrm{adj}(A) = \begin{bmatrix} \boxed{-3} & \boxed{2} \\ \boxed{4} & \boxed{5} \end{bmatrix}$

(d) Find the inverse of A.

$A^{-1} = \begin{bmatrix} \boxed{3/23} & \boxed{-2/23} \\ \boxed{-4/23} & \boxed{-5/23} \end{bmatrix}$