

$$A = \begin{vmatrix} \boxed{1} & \boxed{0} & 1 & \boxed{2} \\ \boxed{1} & \boxed{3} & 0 & \boxed{0} \\ \boxed{1} & \boxed{-3} & 2 & \boxed{4} \\ 2 & 3 & 1 & 2 \end{vmatrix} = \begin{vmatrix} 1 & 0 & 2 \\ 1 & 3 & 0 \\ 1 & -3 & 4 \end{vmatrix} = 0$$