$_{c}hoiceCofactorExpansionAlongAnyRoworColumnLetbean\times n$

Note:

?? *Laplace Expansion Theorem*

??

$_{d}eterminant_{5}Computinga\times 4$

$= cccc12092-3057238-4102.$

4×4
$\det(A) = a_{1,3}C_{1,3}+a_{2,3}C_{2,3}+a_{3,3}C_{3,3}+a_{4,3}C_{4,3}$
$\overline{=} 0 \cdot C_{1,3}+0 \cdot C_{2,3}+3 \cdot C_{3,3}+0 \cdot C_{4,3}$
$\det(A) = 3 \cdot C_{3,3}$
$\overline{=} 3 \cdot (-1)^{3+3} \cdot ccc129\ 2\ 35\ 41\ 2$
$\overline{=} 3 \cdot (-147) \left(\quad 3 \times 3-147 \quad \right)$
$\overline{=} -447$

?? *5×5 triangular*

$_{d}eterminant_{6}Computingthedeterminantofa\times 5$

$= 12345067890010111200013140000 15.$

$_t riangular The Determinant of Triangular Matrices The determinant of a triangular matrix is the product of its diagonal ele$