## QUESTION

State a condition on the matrix $\mathbf{A}$ for the general system of $n$ equations in $n$ unknowns given by $\mathbf{A X}=\mathbf{b}$ to have a unique solution.

ANSWER
$\mathbf{A X}=\mathbf{b}$ has a unique solution if $\operatorname{det} \mathbf{A} \neq 0$.

