## QUESTION

Show that if the  $n \times n$  matrix A is invertible then  $\det(A^{-1}) = (\det A)^{-1}$ . [Hint: consider  $AA^{-1} = I$ .]

## ANSWER

 $\det AB = \det A \times \det B, \text{ so } 1 = \det I = \det (AA^{-1}) = \det A \times \det A^{-1}.$