



If $A = [a_{ij}]_{3 \times 3}$ where $a_{ij} = i^2 + j^2$. Then the trace of matrix A is

Solution :

Trace is sum of elements in principle diagonal

$$\therefore \text{Tr}(A) = a_{11} + a_{22} + a_{33}$$

$$= (1^2 + 1^2) + (2^2 + 2^2) + (3^2 + 3^2)$$

$$= 28$$