

Q. 74 If A is a symmetric matrix, then A^3 is a matrix.

Sol. If A is a symmetric matrix, then A^3 is a symmetric matrix.

\therefore
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$$\begin{aligned}A' &= A \\(A^3)' &= A'^3 \\ &= A^3\end{aligned}$$

$$[\because (A')^n = (A^n)']$$