12.281

EE25BTECH11060 - V.Namaswi

Question

A is a 2×2 matrix with det **A** = 2 .Then det 2**A** is **Solution**

As

$$\det(kA) = k^n \det(A) \tag{1}$$

Here, n = 2 and k = 2. Thus,

$$det(2A) = 2^2 \cdot det(A) \tag{2}$$

$$=4\cdot 2\tag{3}$$

$$= 8 \tag{4}$$

1