

Step-1

We have to fill the following blank and we have to find that, what R is virtually certain if the random A is 4 by 3.

The reduced form R of a 3 by 3 matrix with randomly chosen entries is almost sure to be _____ .

Step-2

The reduced form R of a 3 by 3 matrix with randomly chosen entries is almost sure to be the identity matrix I .

If A is a 4 by 3 matrix, then the reduced form R of A is likely to be identity matrix with fourth row of zeros.

That is $R = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix}$