

CBSE Class 12 Mathematics Worksheet

1. Which of the following is true for a matrix A and B

A)

$$\text{Rank}(A+B) \leq \text{Rank}(A) + \text{Rank}(B)$$

B)

$$\text{Rank}(AB) \leq \min(\text{rank}(A), \text{rank}(B))$$

C)

$$\text{Rank}(AB) \leq \max(\text{rank}(A), \text{rank}(B))$$

D)

$$\text{Rank}(A+B) \geq \text{rank}(A) + \text{rank}(B)$$

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Answers

1. Option A