

## Quiz (Chapter 3)-A

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**SHOW ALL YOUR WORK!**

Let  $A$  be a  $4 \times 4$  matrices, with  $\det A = -3$  and  $\det B = 4$ . Use properties of the determinant to compute:

(a)  $\det(AB)$

(b)  $\det(2A)$

(c)  $\det(A^T B A)$

(d)  $\det(A^3 B^{-1})$