Dawson College: Linear Algebra (SCIENCE): 201-NYC-05-S8: Winter 2025: Quiz 5  Books, watches, notes or cell phones are not allowed. The only calculators allowed are the Sharp EL-531**. You must show all your work, the correct answer is worth 1 mark the remaining m.	name:
<b>Question 1.</b> (3 marks each) Determine whether the following statement is true or false. If the statement is true provide a proof of the statement.	
a. If A and B are $n \times n$ matrices, if $AB = -BA$ , and if n is odd, show that either A or B has no	inverse.
<b>Question 2.</b> (3 marks) Let A and B be two $3 \times 3$ matrices such that $det(A) = -2$ and $det(B) = 3$ . Find	nd the following: $\det ((-2B^3)^{-1}(3A^3)^T \operatorname{adj}(3A))$
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