几亘 Quiz: Sections 3.3

Name: $\qquad$

Linear Algebra MATH 310
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Score: $\qquad$

Directions: Please answer in the space provided. No calculators. Please put all phones, etc., away.

1. Suppose $A$ is a $5 \times 5$ matrix, and $A^{2}=2 \mathrm{I}$.

What are the possible values for $\operatorname{det}(\mathcal{A})$ ? Explain.
2. Find all values of $x$ that make $\left[\begin{array}{ccc}1 & 0 & 3 \\ 2 & -1 & 0 \\ 4 & 2 & x\end{array}\right]$ singular.

