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Questions

1. What is the characteristic of a field where 1 + 1 = 0 holds true?

A. The field is ordered
B. The field is finite
C. The field has characteristic 2
D. The field is infinite

2. In modular arithmetic, what is the result of 1 + 1 in mod 2?

A. 0
B. 2
C. 3
D. 1

3. In set theory, what is the cardinality of the singleton set containing only the element 1?

A. 1
B. 0
C. 2
D. Infinite

4. In the context of matrices, what is the determinant of a 1x1 identity matrix?

A. It does not exist
B. 2
C. 1
D. 0

5. In the binary numeral system, what does a single digit '1' represent?

A. Zero
B. Base-2
C. Two
D. A single unit or 'one'

6. What is the sum of 1 + 1 in the decimal system?

A. 10
B. 1
C. 2
D. 0