ALBERTA MATH 20-2 · UNIT 1 · 5 QUESTIONS

Inductive and Deductive Reasoning — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The terms of a pattern are 20, 17, 14, 11, … The next term is**

- **A** 10
- **B** 9
- **C** 7
- **D** 8

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2 **Which of the following is an example of inductive reasoning?**

- **A** A theorem is proven from postulates and definitions.
- **B** Using the definition of an even number, Priya shows that 14 is even.
- **C** After observing the sun rise every morning for a year, Mateo concludes that the sun will rise tomorrow.
- **D** A formula from a textbook is used to find the area of a circle.

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3

Which figure is a counterexample to the conjecture: every quadrilateral has at least one right angle?

Question 3

Which figure is a counterexample to the conjecture : every quadrilateral has at least one right angle?

A) a square

B) a rhombus with angles of 60° and 120°

C) a rectangle

D) a trapezoid with two right angles

A a square

B a rhombus with angles of 60° and 120°

C a rectangle

D a trapezoid with two right angles

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4

A conjecture is best described as

A a statement that is believed to be true based on observations, but has not been proven

B a statement that has been proven to be true

C a statement that is known to be false

D a rule that is accepted without any evidence or observation

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5 **Bacteria in a dish triple every hour. A pattern begins 2, 6, 18, 54, … where each term is triple the previous term. The 6th term is _____ Record your answer as a whole number.**



ANSWER _____

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ANSWER KEY

1. D
2. C
3. B
4. A
5. 486

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