

Course ID: MATH101 Course Name: Advanced Algebra Test Name: Problem-Solving and Proofs. Test Type: Essay

Rubric

Criteria

Excellent (10 pts)

Good (7–9 pts)

Fair (4–6 pts)

Poor (0–3 pts)

Understanding of the Problem

Clearly identifies given information and correctly sets up the system of equations.

Identifies most of the given information but may make minor setup errors.

Struggles to set up the system of equations or misinterprets the problem.

Fails to understand the problem or sets up equations incorrectly.

Solution Process

Correctly solves the system using algebraic methods with clear, logical steps.

Solves the system correctly but with minor errors in calculations.

Shows partial understanding but makes major algebraic errors.

Solution is disorganized, incorrect, or missing key steps.

Explanation & Justification

Provides a thorough explanation of each step with proper reasoning.

Explanation is mostly clear but may lack some justification.

Minimal explanation provided, making it difficult to follow.

Little to no explanation; unclear reasoning.

Final Answer

Correct values for a , b , and c are clearly stated.

Answer is mostly correct but contains minor miscalculations.

Incorrect values due to calculation errors.

No answer or incorrect values without justification.