

Sample Algebra 2 Unit Test Rubric: Solving Systems of Equations

Name: _____ Date: _____ Period: _____

1. **Learning target:** I can determine whether an ordered pair is a solution of a system. (Problem 2)

Graphs

- 2 points: Correctly graph each equation.
- 1 point: Correctly label each coordinate.
- 1 point: Correctly identify slopes.
- 1 point: Correctly identify the y -intercepts.
- 1 point: Correctly state solution or no solution.

Systems

- 2 points: Correctly use substitutions into each equation.
- 2 points: Simplify each equation correctly.
- 1 point: Correctly state solution or no solution.

2. **Learning target:** I can solve a system of linear equations using any method and identify the number of solutions. (Problem 6)

Graphs

- 1 point: Correctly identify the slopes.
- 1 point: Correctly identify the y -intercepts
- 2 points: Correctly graph each equation.
- 1 point: Correctly identify the solution.

Substitution

- 1 point: Substitute the expression into the other equation.
- 1 point: Correctly solve for the first variable.
- 1 point: Substitute the value into the other equation correctly.
- 1 point: Correctly solve for the second variable.
- 1 point: Correctly identify the solution.

Linear Combination

- 1 point: Combine equations correctly.
- 1 point: Solve for the first variable correctly.
- 1 point: Substitute the value into the other equation correctly.
- 1 point: Correctly solve for the second variable.
- 1 point: Correctly identify the solution.

Multiple Choice

- 3 points: Show all work, and select the correct answer.

3. **Learning target:** I can translate and solve a system of linear equations. (Problem 1)

- 2 points: Set up each equation correctly.
- 2 points: Solve for each variable correctly.
- 1 point: State the solution using units for each variable.

4. **Learning target:** I can determine the relationship between two linear equations. (Problem 4)

- 3 points: Show all work to identify the slopes and y -intercepts, and select the correct answer.

5. **Learning target:** I can determine whether an ordered pair is a solution of a system. (Problem 1)

- 1 point: Correctly label each coordinate.

6. **Learning target:** I can determine whether an ordered pair is a solution of a system. (Problem 1)

Graphs

- 2 points: Correctly identify the slopes and y -intercepts.
- 2 points: Correctly graph each inequality (using a dotted or solid line).
- 2 points: Correctly identify the solution (use shading).

7. **Learning target:** I can use a graphing calculator to identify the relationship between linear equations. (Problem 3)

- 3 points: Show all work, and select the correct answer.

8. **Learning target:** I can use a graphing calculator to identify the point of intersection in a real world problem. (Problem 1)

- 3 points: Show all work, and select the correct answer.

Total: 70 points