

Answer each part for the following system of equation.

$$2x - 3y = -4$$

$$6x + ay = b$$

Part A. Choose values for a and b that make the system have 1 solution. Justify your answer.

Part B. Choose values for a and b that make the system have no solution. Justify your answer.

Part C. Choose values for a and b that make the system have more than 1 solution. Justify your answer.

Advanced Topics in Algebra I

Score Rubric

Part A	
Score	Description
3	Student response includes the following 3 elements. Modeling component: 1 pt * Logical work to justify answer Computation: 2 pts * Correct computation for finding a. * Correct computation for finding b.
2	Student response includes 2 of the 3 elements
1	Student response includes 1 of the 3 elements
0	Student response is incorrect or irrelevant.
Part B	
Score	Description
3	Student response includes the following 3 elements. Modeling component: 1 pt * Logical work to justify answer Computation: 2 pts * Correct computation for finding a. * Correct computation for finding b.
2	Student response includes 2 of the 3 elements
1	Student response includes 1 of the 3 elements
0	Student response is incorrect or irrelevant.
Part C	
Score	Description
3	Student response includes the following 3 elements. Modeling component: 1 pt * Logical work to justify answer Computation: 2 pts * Correct computation for finding a. * Correct computation for finding b.
2	Student response includes 2 of the 3 elements
1	Student response includes 1 of the 3 elements
0	Student response is incorrect or irrelevant.

Genesis Score

PLD5 : 8-9	100
PLD4 : 6-7	89
PLD3 : 4-5	79
PLD2 : 2-3	69
PLD1 : 1	59
0	55