

Name: \_\_\_\_\_

**Math is Gold**

Date: \_\_\_\_\_

**Topic: System of Linear Equations****(id:SLE\_classify\_M.1)****Title: Classify each system of equations as "one-solution", "infinitely many solutions" or "no solution"**

1) $y = -2x - 3$ $8x + 4y = 7$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>	2) $3x + 2y = 1$ $-x + 3y = -4$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>
3) $-x + 2y = 2$ $x - 3y = -4$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>	4) $x + 3y = 5$ $2x + 6y = 1$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>
5) $x - 3y = 5$ $2x + 3y = 1$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>	6) $x = 2y - 9$ $6y - 3x = 27$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>
7) $2x - 5y = 1$ $4x - 10y = 7$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>	8) $-x + 3y = -1$ $-2x + 4y = -4$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>
9) $3x - y = 2$ $9x - 3y = 2$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>	10) $x = 6y - 7$ $30y - 5x = 2$  one <input type="checkbox"/> infinitely many <input type="checkbox"/> No solution <input type="checkbox"/>

11)  $x = -4y + 9$   
 $3x + 12y = 27$

one  infinitely many  No solution

12)  $x - y = -1$   
 $2x + y = 4$

one  infinitely many  No solution

13)  $-y = 1 - 4x$   
 $16x - 4y = 4$

one  infinitely many  No solution

14)  $2x + 2y = 6$   
 $y = -x + 3$

one  infinitely many  No solution

15)  $y = 5x - 1$   
 $15x = 3y + 3$

one  infinitely many  No solution