TRS 92: Solving Linear Systems

1. Which of the following coordinates is the solution to the system?

x + y = 3	
2x - y = 6	

Coordinate	Work	Yes or No
(-2, 4)		
(-3, -12)		
(3, 0)		

Substitution Method

2.

Step 1: Choose one equation

Step 2: Isolate for one variable in that equation

Step 3: Substitute new equation into second equation

Step 4: Solve for the only unknown

Step 5: Substitute value for found variable into second equation

Step 6: Solve for second variable

Step 7: Write an ordered pair of the two found values

Step 8: Check your ordered pair

3. x = 2y - 4 -4x + y = 2 x = 4 - 3yx = 2y + 6.5

Elimination Method

Step 1: Look at the equations and choose a variable to eliminate

Step 2: Multiply by a factor if necessary to get opposite coefficients

Step 3: Add the two equations together

Step 4: Solve for the only unknown

Step 5: Substitute value for found variable into second equation

Step 6: Solve for second variable

Step 7: Write an ordered pair of the two found values

Step 8: Check your ordered pair

4.	5.
7x + 2y = 10	-4x + 2y = 10
-7x + y = -16	2x + y = -18

6. 5x - 7y = 243x - 5y = 16