## Bellwork: Algebra 1

- 1. Write down your homework for the night.
- 2. You need your composition book and a calculator.
- 3. Take out your green packet from yesterday.
- 4. Answer the following question on your THURSDAY Bellwork:

## Find the values of x and y.

$$2x + y = 10$$

$$y = 3x$$

$$3(a)$$

$$2x + 3x = 10$$

$$5x = 10$$

$$x = 2$$

13) 
$$5x - 2y = 3$$
  
  $y = 2x$ 

14) 
$$2y + x = -15$$
  
  $x = 3y$ 

15) 
$$4x + 7y = 19$$
  
 $y = x + 9$ 

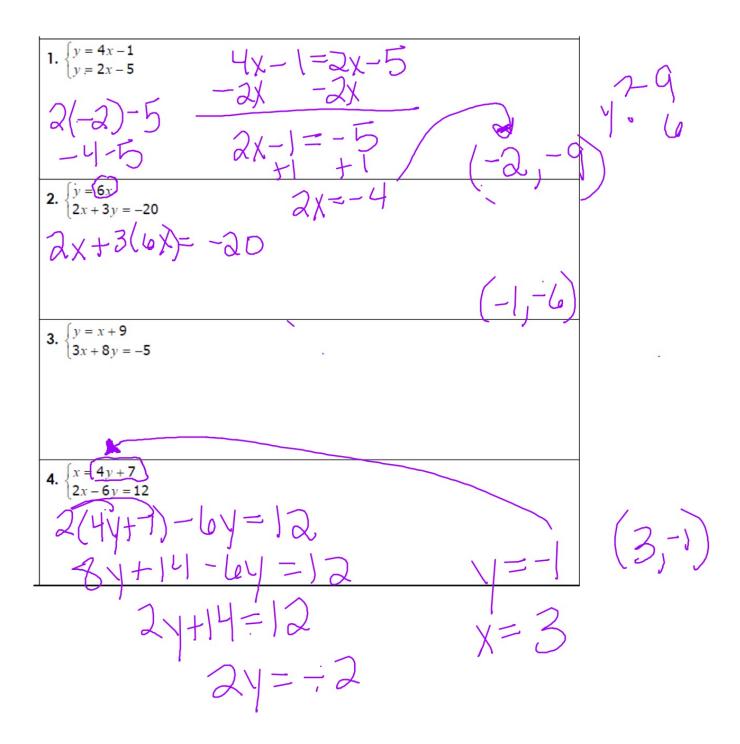
16) 
$$y = 6x + 11$$
  
  $2y - 4x = 14$ 

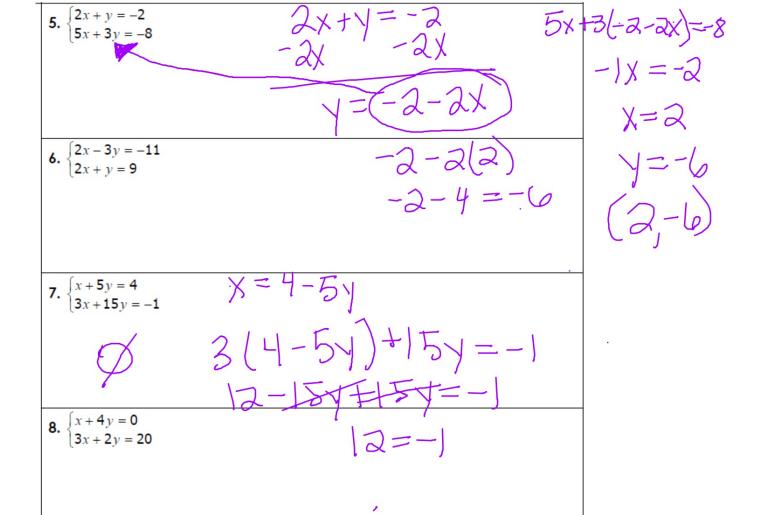
17) 
$$2x - 8y = 6$$
  
 $y = -7 - x$ 

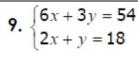
18) 
$$x = 2y - 1$$
  
 $3x - 2y = -3$ 

Main Ideas/Questions	Notes/Examples
Substitution	A method to solve systems of
OUDOTTION	eguations by substituting one
Method	capation into the other.
Steps to Solve	• Step 1: Solve one equation for X or Y. (Sometimes)
	• Step 2: <u>Sいんられたせ</u> this expression into the other
	equation and <u>SDLVC</u> for the variable.
	Step 3: SUDSTITUTE your answer into the revised equation
	from Step 1 and 50 VC for the other variable.

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y=18-2x (ex+3(18-2x)=54(ex+54-(ex)=54)

10. 
$$\begin{cases} x - 3y = -2 \\ 10x + 8y = -20 \end{cases}$$

11. 
$$\begin{cases} 3x - y = -8 \\ 5x + 2y = 5 \end{cases}$$