Name: _	 		
7/8A			

Date: _____ Classwork 10.5

Which is Best? Substitution or Elimination

Warm-Up: Answer the following questions based on your previous knowledge of solving systems algebraically.

1. Can you solve the following systems of equations using elimination? Why or why not?

$$4x + 8y = 20$$

 $2y = 4x - 30$

- 2. Do you think it is easier to use the substitution or elimination method for the following systems? Justify your answer.
 - a. -2x + 3y = -6 y = 8 - xb. 3x + 2y = 82x - 2y = 12

Directions: Solve each system of equations algebraically by using *either* substitution or elimination.

1.	y = 3x + 4 y = -2x + 9
2.	3x - 3y = 15 x = 1 + 2y
3.	4x - 3y = 22 2x + 8y = 30

Λ	v + 3v - 18
4.	$x \neq 3y = 10$
	-x + 2y = 7
	-
<u> </u>	
5.	x - 2y = 4
	v = x - 2
	у — л. <i>Ц</i>
6.	3x - 4y = -27
5.	$2 \cdot \cdot$
	2x + y = -7

7.
$$2x - y = 3$$

 $x + y = 3$
8. $-2x + 3y = 9$
 $y = 2x + 7$
9. $4x + 8y = 20$
 $-2x + y = -15$