Name, date, and period required to receive credit!

Name _____ Date _____ Period _____

Solve Linear Systems by Substitution Workouts

1.	$\boldsymbol{y = 4x}$ **EXAMPLE** $\boldsymbol{x + y = 5}$ $x + (4x) = 5$ *(Since 4x is equivalent to y, we can substitute it for y)* $5x = 5$ *(Simplify by combining like terms)* $\frac{5x}{5} = \frac{5}{5}$ *(Divide both side by 5 to isolate x)* $\boldsymbol{x = 1}$ → $y = 4(1)$ $\boldsymbol{y = 4}$ **Solution: (1,4)**
2.	$\boldsymbol{y = 2x}$ $\boldsymbol{x + 3y = -14}$ **Solution:**
3.	$\boldsymbol{y = 3x}$ $\boldsymbol{2x + y = 15}$ **Solution:**
4.	$\boldsymbol{x = -4y}$ $\boldsymbol{3x + 2y = 20}$ **Solution:**
5.	$\boldsymbol{y = x - 1}$ $\boldsymbol{x + y = 3}$ **Solution:**

6.	$\boldsymbol{x = y - 7}$ $\boldsymbol{x + 8y = 2}$ **Solution:**
7.	$\boldsymbol{y = 4x - 1}$ $\boldsymbol{y = 2x - 5}$ **Solution:**
8.	$\boldsymbol{y = 3x + 8}$ $\boldsymbol{5x + 2y = 5}$ **Solution:**
9.	$\boldsymbol{2x - 3y = 21}$ $\boldsymbol{y = 3 - x}$ **Solution:**
10.	$\boldsymbol{y = 5x - 8}$ $\boldsymbol{4x + 3y = 33}$ **Solution:**
11.	$\boldsymbol{x + 2y = 13}$ $\boldsymbol{3x - 5y = 6}$ **Solution:**

12.	$\boldsymbol{x + 5y = 4}$ $\boldsymbol{3x + 15y = -1}$ **Solution:**
13.	$\boldsymbol{3x - y = 4}$ $\boldsymbol{2x - 3y = -9}$ **Solution:**
14.	$\boldsymbol{x + 4y = 8}$ $\boldsymbol{2x - 5y = 29}$ **Solution:**
15.	$\boldsymbol{x - 5y = 10}$ $\boldsymbol{2x - 10y = 20}$ **Solution:**
16.	$\boldsymbol{5x - 2y = 14}$ $\boldsymbol{2x - y = 5}$ **Solution:**