

Lesson 25 ~ Solving Systems By Substitution

Name _____ Period _____ Date _____

Solve the system of equations using the substitution method. Check the solution.

1. $y = 2x + 1$
 $3x + 2y = 23$

2. $x + y = 6$
 $x = 3y - 2$

3. $-6x + 5y = 16$
 $x = 5 - 3y$

4. $4x - 3y = -15$
 $x + y = 5$

5. $-2x = y$
 $7x + 3y = 3$

6. $y + 2x = 3$
 $y - x = -9$

7. Reese picked two numbers, x and y . She told her friend that the sum of the two numbers is 9 and the difference of the two numbers is 17.
- Write two different linear equations that model what Reese told her friend.
 - Solve the system of linear equations using the substitution method. What two numbers did Reese pick?