

Name: _____ Class: _____ Date: _____

Algebra 2 CP Worksheet: Section 3.2 Substitution Method

Solve each system of equations using the substitution method.

1. $2x + 3y = 5$
 $x = 5y + 9$

2. $4x - 2y = 5$
 $-2x + y = 6$

3. $5x + 3y = 4$
 $5x + y = 16$

4. $3x - y = 4$
 $5x + 3y = 9$

5. $-3x + y = 2$
 $8x - 15y = 7$

Algebra 2 CP Worksheet: Section 3.2 Substitution Method

6. $3x - y = 4$
 $-9x + 3y = -12$

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

8. The sum of two numbers is 16 and their difference is 20. Define the variables, write a system of inequalities and find the two numbers.
9. Elise purchases shirts for \$28 and skirts for \$15. If she spends a total of \$131 and buys a total of 7 items, how many of each did she purchase? Define the variables, write a system of inequalities and solve.