Name: _____ Date: _____ Period: _____

Solving System of Equations by Elimination (Worksheet 82)

Solve the following systems of equations by eliminating a variable.

1. $3x + y = 5$
$x - y = 7$

2. $2x - y = 6$
$3x + y = 4$

3. $x + 4y = 2$
$-x + y = 8$

4. $x + y = 7$
$x - y = 1$

5. $3x - 4y = 14$
$x + 4y = 2$

6. $2x - 5 = y$
$x - 7 = -y$

7. $2x - 7y = 3$
$-2x + y = -9$

8. $5x - 3y = -1$
$4x + 3y = 10$

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

10. $8x - 3y = 1$
$-8x + 5y = 9$

11. $y = 5x + 1$
$2y = -5x + 2$

12. $3y - 4y = 5$
$y + 4x = 7$

13. $3x + y = 8$
$x - y = 4$

14. $2x - 2y = 14$
$x + 2y = 1$

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Solving System of Linear Equations by Substitution (Worksheet 84)

1. $x + y = 5$
$x = y + 7$

2. $x - y = 1$
$2x + y = 8$

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

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

5. $2x + 7y = 8$
$x + 5y = 7$

6. $y = 2x + 3$
$y = 4x + 4$

7. $4x - 7y = 9$
$y = x - 3$

8. $y = 3x + 3$
$y = 2x + 4$

9. $2x + 4y = 6$
$2x + y = -3$

10. $2x + 7y = -1$
$3x + y = 8$

11. $x + 3y = 17$
$2x + 3y = 22$

12. $3x + 4y = 26$
$-2x + y = 1$

13. $3x + y = 5$
$2x + 3y = 8$

14. $2x + 6y = 24$
$x - 4y = -2$