**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_**

**Solving System of Equations by Elimination (Worksheet 82)**

**Solve the following systems of equations by eliminating a variable.**

**1.** 3*x* + *y* = 5 **2.** 2*x* – *y* = 6 **3.** *x* + 4*y* = 2

*x* – *y* = 7 3*x* + *y* = 4 –*x* + *y* = 8

**4.** *x* + *y* = 7 **5.** 3*x* – 4*y* = 14 **6.**  2*x* – 5 = *y*

*x* – *y* = 1 *x* + 4*y* = 2 *x* – 7 = –*y*

**7.** 2*x* – 7*y* = 3 **8.** 5*x* – 3*y* = –1 **9.** *y* = 2*x* – 3

–2*x* + *y* = –9 4*x* + 3*y* = 10 –*y* = *x*

**10.** 8*x* – 3*y* = 1 **11.** *y* = 5*x* + 1 **12.** 3*y* – 4*y* = 5

–8*x* + 5*y* = 9 2*y* = –5*x* + 2 *y* + 4*x* = 7

**13.** 3*x* + *y* = 8 **14.** 2*x* – 2*y* = 14

*x* – *y* = 4 *x* + 2*y* = 1

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_**

**Solving System of Linear Equations by Substitution (Worksheet 84)**

**1.** *x* + *y* = 5 **2.**  *x* – *y* = 1 **3.** 3*x* – *y* = 7

*x* = *y* + 7 2*x* + *y* = 8 *y* = *x* + 3

**4.** *y* = 3 – 2*x* **5.** 2*x* + 7*y* = 8 **6.** *y* = 2*x* + 3

*y* = 2 – 3*x* *x* + 5*y* = 7 *y* = 4*x* + 4

**7.** 4*x* – 7*y* = 9 **8.**  *y* = 3*x* + 3 **9.** 2*x* + 4*y* = 6

*y* = *x* – 3 *y* = 2*x* + 4 2*x* + *y* = –3

**10.** 2*x* + 7*y* = –1 **11.** *x* + 3*y* = 17 **12.** 3*x* + 4*y* = 26

3*x* + *y* = 8 2*x* + 3*y* = 22 –2*x* + *y* = 1

**13.** 3*x* + *y* = 5 **14**. 2*x* + 6*y* = 24

2*x* + 3*y* = 8 *x* – 4*y* = –2