Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

**5.2A Homework (Solving Systems of Equations Using the Substitution Method)**

Solve each system of equations using substitution

|  |  |
| --- | --- |
| 1. y = 2x  y = 7x – 15 | 2. y = 4x – 8  y = 2x + 10 |
| 3. y= 5x – 2  -3x + 6y = -12 | 4. 2x + y = 13  x = 2y – 1 |
| 5. x = 8y – 1  x = 6y + 7 | 6. x = 4y + 3  x = -2y + 15 |
| 7. -7x – 2y = -13  x= 2y + 11 | 8. x = 3y + 10  -2x – 5y = 2 |
| 9. x = -3y + 4  5x + 6y = 11 | 10. 8x + 5y = 7  y = -x – 1 |
| 11. y = x + 3  x + 2y = -3 | 12. x = 2 – 2y  7x + 10y = 2 |

Solutions: **1**. (3, 6) **2.** (9, 28) **3.** (0,-2) **4.** (5, 3) **5.** (31, 4) **6.** (11, 2) **7.** (3,-4) **8.** (4, -2)

**9.** (1, 1) **10.** (4, -5) **11.** (-3, 0) **12.** (-4, 3)