**Solving Systems of Equations by Substitution Day 1 Practice**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_**

**Solve each system by substitution.**

**1. y = 4x + 2 2. y = 6**

 **-4x + y = -3 y = 3x + 6**

**3. y = 2x + 1 4. x = -2y + 6**

 **3x + y = -9 3x – 4y = 28**

**5. 2x + y = 4 6. -2y = 6x + 12**

 **-2x + y = -4 y = -3x – 6**

**7. -2x + 6y = 6 8. -2x + y = -9**

 **-7x + 8y = -5 5x + 2y = 18**

Teacher Twins©2014

**Solving Systems of Equations by Substitution Day 1 Practice Answers**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_**

**Solve each system by substitution.**

**1. y = 4x + 2 2. y = 6**

 **-4x + y = -3 y = 3x + 6**

 **no solution (0, 6)**

**3. y = 2x + 1 4. x = -2y + 6**

 **3x + y = -9 3x – 4y = 28**

**(-2, -3) (8, -1)**

**5. 2x + y = 4 6. -2y = 6x + 12**

 **-2x + y = -4 y = -3x – 6**

**(2, 0) Infinitely many**

**7. -2x + 6y = 6 8. -2x – y = -9**

 **-7x + 8y = -5 5x – 2y = 18**

**(3,2) (4,1)**

Teacher Twins©2014