

## Extra Credit: Solving by Substitution

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each system by substitution.**

1)  $y = 6x + 8$   
 $8x - 8y = 16$

3)  $y = 4x - 5$   
 $-5x + 2y = -4$

5)  $6x - 3y = 39$   
 $y = 2x - 13$

7)  $2x - y = 6$   
 $y = -7x + 21$

9)  $y = x - 11$   
 $2x - y = 16$

11)  $-6x + 6y = 18$   
 $y = -6x - 11$

13)  $-4x - 6y = -24$   
 $y = -3x + 11$

15)  $y = x - 9$   
 $2x + 2y = -14$

17)  $-2x - 5y = -4$   
 $y = 3x - 6$

19)  $-7x - y = 21$   
 $y = -5x - 17$

21)  $y = 6x + 18$   
 $y = -7x - 21$

23)  $y = -6x + 16$   
 $y = x - 5$

25)  $y = -3x - 11$   
 $y = -7x - 19$

27)  $y = -7x - 15$   
 $y = 5x - 3$

29)  $y = 3x - 12$   
 $y = -2x + 13$

31)  $y = 8x + 2$   
 $y = 4x - 2$

33)  $y = -4x - 2$   
 $y = -2$

35)  $y = -2x - 9$   
 $y = x - 6$

37)  $y = -4x - 10$   
 $y = -5x - 13$

39)  $y = x - 2$   
 $y = 5x - 10$

2)  $y = x - 4$   
 $-3x + 3y = -12$

4)  $-7x - 7y = -21$   
 $y = -4x + 15$

6)  $y = -6$   
 $4x + 7y = -18$

8)  $-8x - y = 8$   
 $y = 8x + 24$

10)  $-x - y = -3$   
 $y = 8x - 24$

12)  $y = -6x + 13$   
 $4x - y = -3$

14)  $y = -2x + 7$   
 $-6x + 4y = 14$

16)  $3x - 6y = 12$   
 $y = 2$

18)  $y = -6$   
 $-4x + 5y = -22$

20)  $-24x - 3y = 66$   
 $y = -8x - 22$

22)  $y = -4x + 3$   
 $y = -2x + 1$

24)  $y = -3x - 14$   
 $y = x + 2$

26)  $y = 2x + 11$   
 $y = -4x - 19$

28)  $y = x - 5$   
 $y = 5x - 17$

30)  $y = 2x$   
 $y = -7x + 18$

32)  $y = -4x + 18$   
 $y = 6x - 22$

34)  $y = 4x - 2$   
 $y = 8x - 10$

36)  $y = 6$   
 $y = 3x - 9$

38)  $y = -3x + 10$   
 $y = -5x + 18$

40)  $y = 3x + 3$   
 $y = 4x + 3$