5.3 Practice WS

Show all your work. Then check your answers, correct your answers, and grade yourself. If you have any questions please do not hesitate to ask.

In Exercises 1–18, solve the system of linear equations by elimination. Check your solution.

1. $x + 3y = 17$
$-x + 2y = 8$

2. $2x - y = 5$
$5x + y = 16$

3. $2x + 3y = 10$
$-2x - y = -2$

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

5. $5x + 2y = -28$
$-5x + 3y = 8$

6. $2x - 5y = 8$
$3x + 5y = -13$

7. $2x + y = 12$
$3x - 18 = y$

8. $4x + 3y = 14$
$2y = 6 + 4x$

9. $-4x = -2 + 4y$
$-4y = 1 - 4x$

10. $x + 2y = 20$
$2x + y = 19$

11. $3x - 2y = -2$
$4x - 3y = -4$

12. $9x + 4y = 11$
$3x - 10y = -2$

13. $4x + 3y = 21$
$5x + 2y = 21$

14. $-3x - 5y = -7$
$-4x - 3y = -2$

15. $8x + 4y = 12$
$7x + 3y = 10$

16. $4x + 3y = -7$
$-2x - 5y = 7$

17. $8x - 3y = -9$
$5x + 4y = 12$

18. $-3x + 5y = -2$
$2x - 2y = 1$

19. The sum of two numbers is 22. The difference is 6. What are the two numbers?