6-4　Skills Practice

Elimination Using Multiplication

Use elimination to solve each system of equations.

1. $x + y = -9$
$5x - 2y = 32$ **(2, −11)**

2. $3x + 2y = -9$
$x - y = -13$ **(−7, 6)**

3. $2x + 5y = 3$
$-x + 3y = -7$ **(4, −1)**

4. $2x + y = 3$
$-4x - 4y = -8$ **(1, 1)**

5. $4x - 2y = -14$
$3x - y = -8$ **(−1, 5)**

6. $2x + y = 0$
$5x + 3y = 2$ **(−2, 4)**

7. $5x + 3y = -10$
$3x + 5y = -6$ **(−2, 0)**

8. $2x + 3y = 14$
$3x - 4y = 4$ **(4, 2)**

9. $2x - 3y = 21$
$5x - 2y = 25$ **(3, −5)**

10. $3x + 2y = -26$
$4x - 5y = -4$ **(−6, −4)**

11. $3x - 6y = -3$
$2x + 4y = 30$ **(7, 4)**

12. $5x + 2y = -3$
$3x + 3y = 9$ **(−3, 6)**

13. Two times a number plus three times another number equals 13. The sum of the two numbers is 7. What are the numbers?
8, −1

14. Four times a number minus twice another number is −16. The sum of the two numbers is −1. Find the numbers.
−3, 2

15. FUNDRAISING Trisha and Byron are washing and vacuuming cars to raise money for a class trip. Trisha raised $38 washing 5 cars and vacuuming 4 cars. Byron raised $28 by washing 4 cars and vacuuming 2 cars. Find the amount they charged to wash a car and vacuum a car.
wash: $6, vacuum: $2