Name: _____ Date: _____

Fresh Math

Solving Systems Elimination - Medium

Solve each system by elimination. Multiply one equation first to eliminate a variable.

1. $3x + 2y = -28$
   $2x - 4y = 24$

2. $-3x + 2y = -4$
   $x + 6y = 48$

3. $-x + 2y = 16$
   $x - 6y = -48$

4. $-x + y = 3$
   $-x - 4y = 18$

5. $2x + 2y = 8$
   $-8x + 6y = -74$

6. $2x + 5y = 20$
   $-8x - 2y = -44$

7. $3x + y = -18$
   $6x - 2y = -36$

8. $x + y = 4$
   $-5x - 3y = -14$

9. $-4x + y = 1$
   $3x - 2y = -2$

10. $-x + 2y = -8$
    $x - 8y = 14$

Name: _____ Date: _____

Fresh Math

Solving Systems Elimination - Medium

Solve each system by elimination. Multiply one equation first to eliminate a variable.

11. $3x + 3y = -36$
    $-6x - 3y = 48$

12. $-2x - 2y = -6$
    $7x + 6y = 16$

13. $-x - 2y = 19$
    $x - 4y = 29$

14. $-5x - 2y = -48$
    $x + 4y = 24$

15. $-2x + 3y = -11$
    $8x - y = -33$

16. $-2x + 5y = 24$
    $6x + y = 24$

17. $-5x - y = 21$
    $-3x - 2y = 14$

18. $-4x + 2y = 18$
    $-3x - 4y = 30$

19. $x - y = -12$
    $4x + 2y = -6$

20. $-x - 2y = 15$
    $2x - 6y = 20$

Solving Systems Elimination - Medium - Answer Key

1. $3x + 2y = -28$
   $2x - 4y = 24$
   $(-4, -8)$

2. $-3x + 2y = -4$
   $x + 6y = 48$
   $(6, 7)$

3. $-x + 2y = 16$
   $x - 6y = -48$
   $(0, 8)$

4. $-x + y = 3$
   $-x - 4y = 18$
   $(-6, -3)$

5. $2x + 2y = 8$
   $-8x + 6y = -74$
   $(7, -3)$

6. $2x + 5y = 20$
   $-8x - 2y = -44$
   $(5, 2)$

7. $3x + y = -18$
   $6x - 2y = -36$
   $(-6, 0)$

8. $x + y = 4$
   $-5x - 3y = -14$
   $(1, 3)$

9. $-4x + y = 1$
   $3x - 2y = -2$
   $(0, 1)$

10. $-x + 2y = -8$
    $x - 8y = 14$
    $(6, -1)$

Solving Systems Elimination - Medium - Answer Key

11. $3x + 3y = -36$
$-6x - 3y = 48$
(-4, -8)

12. $-2x - 2y = -6$
$7x + 6y = 16$
(-2, 5)

13. $-x - 2y = 19$
$x - 4y = 29$
(-3, -8)

14. $-5x - 2y = -48$
$x + 4y = 24$
(8, 4)

15. $-2x + 3y = -11$
$8x - y = -33$
(-5, -7)

16. $-2x + 5y = 24$
$6x + y = 24$
(3, 6)

17. $-5x - y = 21$
$-3x - 2y = 14$
(-4, -1)

18. $-4x + 2y = 18$
$-3x - 4y = 30$
(-6, -3)

19. $x - y = -12$
$4x + 2y = -6$
(-5, 7)

20. $-x - 2y = 15$
$2x - 6y = 20$
(-5, -5)