Systems of linear equations Name_____

Date_____

Solve each system by elimination.

1) $-x + \frac{4}{5}y = 3$
$0 = -14y - 14x - 42$

2) $0 = 32x - 24y - 46$
$-12x + 9y + 24 = 0$

3) $-19 + 5x = -4y$
$-10 + 8x + 3y = 0$

4) $0 = -6x - 4y - 12$
$0 = -16 - 8x + 5y$

5) $-7y = 7 - 6x$
$0 = -4x + 7 + 5y$

6) $9y + 6x = -3$
$-2y - 7x + 22 = 0$

7) $9x = -6 + 5y$
$4 = -5x + 3y$

8) $-12 - 24x = -36y$
$5 = -10x + 15y$

Solve each system by substitution.

9) $y = 0$
$7x - y = -21$

10) $3x + 7y = -2$
$-7x - 5y = 16$

11) $-2x - 5y = -12$
$6x + 5y = -4$

12) $2x - 7y = -8$
$y = 0$

13) $y = -7$
$-6x + 6y = 0$

14) $6x - 2y = 0$
$-x - 2y = 14$

15) $-2x - 2y = -10$
$-8x + 2y = -10$

16) $-7x - y = 5$
$-2x + 4y = 10$

Answers to

1) $(-3, 0)$
2) No solution
3) $(-1, 6)$
4) $(-2, 0)$
5) $(-7, -7)$
6) $(4, -3)$
7) $(1, 3)$
8) Infinite number of solutions
9) $(-3, 0)$
10) $(-3, 1)$
11) $(-4, 4)$
12) $(-4, 0)$
13) $(-7, -7)$
14) $(-2, -6)$
15) $(2, 3)$
16) $(-1, 2)$