Geometry Name_____

Review: Systems of Equations

Date_____ Period____

Solve each system by substitution.

1) $y = x + 14$
$-8x - 6y = 14$

2) $-6x - 4y = 20$
$y = 2x + 2$

3) $-7x + 3y = 24$
$y = 3x + 8$

4) $y = 5x - 7$
$2x + 2y = -14$

5) $4x + 5y = 19$
$x - 2y = 8$

6) $6x + y = -12$
$-18x - 3y = 36$

7) $7x - y = 5$
$y = 2$

8) $2x + y = 7$
$-x + 5y = 2$

9) $5x - 3y = 2$
$-4x + 8y = 4$

10) $8x + 3y = 5$
$-8x - 3y = 3$

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

12) $5x - 5y = -10$
$2x + 6y = 12$

Solve each system by elimination.

13) $x - \frac{1}{4}y = -\frac{11}{4}$
$27 - y + 8x = 0$

14) $0 = 4x - 16 + 8y$
$4x + 14 = -2y$

15) $0 = 4 + 8y + 4x$
$-y - 4x = 18$

16) $13 - 5y = -8x$
$3x = 5y + 17$

17) $-10x - 16y = 12$
$-\frac{1}{18}x - \frac{4}{9}y = -1$

18) $-10 + 2y = 8x$
$4y = 20 - 3x$