Algebra 1 Name_____

Substituting Systems of Equations

Date_____

Solve each system by substitution.

1) $y = 2x - 14$
$y = x - 10$

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

3) $y = 2x + 2$
$6x - 2y = -12$

4) $4x + y = 11$
$-6x + 6y = -24$

5) $-x + 3y = 19$
$y = 2x + 18$

6) $-2x + 3y = -13$
$-3x + 5y = -23$

7) $7x + 4y = 7$
$-x + 2y = -19$

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

9) $x + 5y = 21$
$-3x - 3y = -15$

10) $5x + 2y = 10$
$2x + y = 5$

11) Fabulously Fit offers memberships for $35 per month plus a $50 enrollment fee. The Fitness Studio offers memberships for $40 per month plus a $35 enrollment fee. In how many months will the fitness clubs cost the same? What will the cost be?

12) Kate bought 3 used CDs and 1 used DVD at the bookstore. Her friend Joel bought 2 used CDs and 2 used DVDs at the same store. If Kate spent $20 and Joel spent $22, determine the cost of a used CD and a used DVD.