Math 1 - Systems of Equations Name_____ ID: 1

Practice Test Ch 5 - Version F

Date_____ Period____

Solve each system by graphing.

1) $y = \frac{1}{2}x + 1$
$y = \frac{3}{2}x - 3$

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

Solve each system by elimination.

3) $x - 3y = -5$
$-x - 2y = 0$

4) $2x + 2y = 10$
$-2x - 2y = -10$

5) $2x - 3y = -3$
$x + 3y = -15$

6) $-x + 2y = 7$
$x - 2y = -13$

7) $-10x + 8y = 2$
$x - 2y = -5$

8) $8x + 4y = -4$
$4x - 7y = -29$

Solve each system by substitution.

9) $y = -4x + 11$
$-4x + 4y = 4$

10) $y = -2x + 1$
$3x - 3y = 6$

11) The school that Ming goes to is selling tickets to a play. On the first day of ticket sales the school sold 3 senior citizen tickets and 10 student tickets for a total of $93. The school took in $52 on the second day by selling 2 senior citizen tickets and 5 student tickets. Find the price of a senior citizen ticket and the price of a student ticket.

Solve each equation.

12) $\frac{|-7+m|}{8} = 3$

13) $7(2x+8) = -21+3x$

Solve each compound inequality.

14) $-65 < 7r - 2 \leq 12$

Write the equation of the line described.

15) through: $(-4, 3)$, parallel to $y = -\frac{1}{2}x + 2$

16) through: $(-2, -5)$, perp. to $y = \frac{1}{5}x + 2$

Write equation of the line through the given points.

17) through: $(4, 1)$ and $(0, 3)$

Sketch the graph of each linear inequality.

18) $y > \frac{5}{3}x + 5$

Sketch the solution to each system of inequalities.

19) $x \geq 2$

$y > \frac{1}{2}x - 2$