WS 3.2 - Systems of Equations

Date_____ Period____

Solve each system by elimination.

1) $9x - 2y = -2$
$x - y = -1$

2) $6x - 14y = 26$
$-x - 7y = 5$

3) $-x - y = 0$
$3x + 3y = 0$

4) $-7x + 10y = 13$
$-9x + 20y = -19$

5) $9x - 3y = 24$
$-5x + 8y = -26$

6) $8x - 7y = 2$
$-6x + 4y = -14$

7) $-5x - 10y = 25$
$2x - 7y = -21$

8) $4x + 8y = 12$
$-6x - 10y = -14$

Solve each system by substitution.

9) $4x - 7y = -4$
$-2x + y = 12$

10) $8x + 2y = -6$
$-6x + y = -3$

11) $8x + 4y = 12$
$x - 7y = -6$

12) $x + 3y = 9$
$2x - 4y = -12$

Geometry Name_____ ID: 1

WS 3.2 - Systems of Equations

Date_____ Period____

Solve each system by elimination.

1) $9x - 2y = -2$
$x - y = -1$

$(0, 1)$

2) $6x - 14y = 26$
$-x - 7y = 5$

$(2, -1)$

3) $-x - y = 0$
$3x + 3y = 0$

Infinite number of solutions

4) $-7x + 10y = 13$
$-9x + 20y = -19$

$(-9, -5)$

5) $9x - 3y = 24$
$-5x + 8y = -26$

$(2, -2)$

6) $8x - 7y = 2$
$-6x + 4y = -14$

$(9, 10)$

7) $-5x - 10y = 25$
$2x - 7y = -21$

$(-7, 1)$

8) $4x + 8y = 12$
$-6x - 10y = -14$

$(-1, 2)$

Solve each system by substitution.

9) $4x - 7y = -4$
$-2x + y = 12$

$(-8, -4)$

10) $8x + 2y = -6$
$-6x + y = -3$

$(0, -3)$

11) $8x + 4y = 12$
$x - 7y = -6$

$(1, 1)$

12) $x + 3y = 9$
$2x - 4y = -12$

$(0, 3)$