H. Geometry Name_____

Practice Assignment #3

Date_____ Period____

Solve each equation by factoring.

1) $64 + 57x = 8 - 7x^2$

$\left\{-\frac{8}{7}, -7\right\}$

2) $15x^2 + 7x = 4$

$\left\{-\frac{4}{5}, \frac{1}{3}\right\}$

3) $5x^2 - 2x - 13 = -6$

$\left\{\frac{7}{5}, -1\right\}$

4) $3p^2 + 20p = -32$

$\left\{-\frac{8}{3}, -4\right\}$

Solve each system by elimination.

5) $4x + 7y = -23$
$5x + 8y = -28$

$(-4, -1)$

6) $-8x + 7y = 17$
$12x - 2y = 34$

$(4, 7)$

7) $-11x + 10y = 35$
$4x - 9y = -2$

$(-5, -2)$

8) $3x - 4y = 24$
$-7x - 5y = -13$

$(4, -3)$

Solve each system by substitution.

9) $2x + 7y = -9$
$-3x - 7y = 3$

$(6, -3)$

10) $4x + 4y = -16$
$-x - 4y = -8$

$(-8, 4)$

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

$(0, 6)$

12) $-3x + 4y = -3$
$-8x + 3y = 15$

$(-3, -3)$