

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

$$(4, 7)$$

$$7) \begin{aligned} -11x + 10y &= 35 \\ 4x - 9y &= -2 \end{aligned}$$

$$(-5, -2)$$

$$8) \begin{aligned} 3x - 4y &= 24 \\ -7x - 5y &= -13 \end{aligned}$$

$$(4, -3)$$

Solve each system by substitution.

$$9) \begin{aligned} 2x + 7y &= -9 \\ -3x - 7y &= 3 \end{aligned}$$

$$(6, -3)$$

$$10) \begin{aligned} 4x + 4y &= -16 \\ -x - 4y &= -8 \end{aligned}$$

$$(-8, 4)$$

$$11) \begin{aligned} -2x + 2y &= 12 \\ 4x - y &= -6 \end{aligned}$$

$$(0, 6)$$

$$12) \begin{aligned} -3x + 4y &= -3 \\ -8x + 3y &= 15 \end{aligned}$$

$$(-3, -3)$$