ACC Pre-Calculus
Solving Systems of Equations Review

Name: KEY
Date: _____ Block: _____

Solve the system of equations using elimination.

1.) $7x + 2y = 24$
$8x + 2y = 30$
(6, -9)

2.) $5x + y = 9$
$10x - 7y = -18$
(1, 4)

3.) $-4x + 9y = 9$
$x - 3y = -6$
(9, 5)

4.) $-7x + y = -19$
$-2x + 3y = -19$
(2, -5)

Solve the system of equations using substitution.

5.) $y = 5x - 7$
$-3x - 2y = -12$
(2, 3)

6.) $-5x + y = -3$
$3x - 8y = 24$
(0, -3)

Solve the system of equations using substitution.

7.) $x + 3y = 1$
$-3x - 3y = -15$

(7, -2)

8.) $-2x + 6y = 6$
$-7x + 8y = -5$

(3, 2)

Solve the system using the method of your choice.

9.) $2x + 8y = 6$
$-5x - 20y = -15$

Infinitely many solutions.

$\frac{2x + 8y}{2} = \frac{6}{2}$

$x + 4y = 3$

$\frac{-5x - 20y}{-5} = \frac{-15}{-5}$

$x + 4y = 3$

They are essential the same equations; they have the same set of solutions.

10.) $-2x - y = -9$
$5x - 2y = 18$

(4, 1)