Per:

6-3 Solve Systems by EliminationSolve as indicated. **Circle your answers**.

1. Solve by the elimination method and check your answer:

$$-4x-2y = -16$$

$$4x+8y = -8$$

$$6y = -24$$

$$y = -4$$

$$4x + 8(-4) = -8$$

$$4x + 8(-4) = -8$$

$$4x + 8 - 2 = -8$$

$$4x = 24$$

x=6

Check:

$$-4x - 2y = -16 \qquad 4(6) + 8(-4) = -8$$

$$-24 + 8 = -16 \qquad 4(6) + 8(-4) = -8$$

$$-16 = -16 \qquad 24 - 32 = -8$$

$$-8 = -8$$
(3)

2. Solve by the elimination method:

$$-3(-7x+y=-19)
-2x+3y=-19$$

$$-2x+3y=-19$$

$$-2x+3y=-19$$

$$-2x+3y=-19$$

$$x=2$$

$$-2(2)+3y=-19$$

$$-4+3y=-19$$

$$3y=-19$$

$$y=-5$$

$$(2x-5)$$

(3)

3. Solve by the elimination method:

$$5(3x+2y=-9) | 15x+10y=-45$$

$$-2(-10x+5y=-5) | 20x-10y=10$$

$$3(x+2y=-5) | 3(x+2y=-5) | 3(x+2y=-6)$$

$$-3+2y=-6$$

$$2y=-6$$

$$y=-3$$

4. Check your answer to #3

$$3x+3y=-9$$
 $-(0x+5y=-5)$
 $3(-1)+2(3)=-9$ $-(0(-1)+5(-3)=-5)$
 $-3+6=-9$ $-(0x+5y=-5)$
 $-(0x+5y=-5)$