Solve by graphing:

$$y = -x+3$$

$$y = x+1$$

Solve using any method:

$$\begin{cases} 2x - y = 6 \\ x + y = -3 \end{cases}$$

$$3x = 3$$

$$x = 1$$

$$1 + y = -3$$

$$y = -4$$

$$(1, -4)$$

$$4x + 10y = 2$$

$$2x + x-7 = 8$$

$$3x - 7 = 8$$

$$3x = 15$$

$$x = 5$$

$$y = 5 - 7$$

$$4 - 3x$$

$$3x$$

$$-4(-2) + 8y = 16$$

$$8 + 8y = 16$$

$$8y = 8$$

$$y = 1$$

$$(-2, 1)$$

5. (2x + y = 8)

y = x - 7

6.
$$[2x+3y=0]$$
 $2x+3y=0$
 $-2[x+2y=-1]$ $-2x-4y=2$
 $-2x+2y=-1$ $-2x-4y=2$
 $-2x+2y=-1$
 $-2x-4y=2$
 $-2x-2y=-1$
 $-2x-2y=-2$
 $-2x-2y=-2$
 $-2x-2y=-2$
 $-2x-2y=-2$
 $-2x-2y=-2$
 $-2x-2y=-2$

4.
$$-3x-7y=8$$

$$3x-2y=-44$$

$$-9y=-36$$

$$3x-8=-44$$

$$3x-8=-44$$

$$3x=-36$$

$$x=-12$$

Solving Systems Review

$$\begin{cases} y - x = 17 \\ 2y + 3x = -11 \end{cases} \quad \forall \quad x \leftarrow x \leftarrow 7$$

$$\begin{cases}
x + 6y = 1 \\
2x - 3y = 32
\end{cases}$$

$$2(x+17)+3x = -11$$

$$2x + 34 + 3x = -11 \quad y = -9+17$$

$$5x = -45 = -8$$

$$x = -9$$

$$13 + 6y = 1$$

 $6y = -12$
 $y = -2$

$$x = (3)$$
 $(13, -2)$

Helen spent \$7.75 to purchase 23 snacksized bags of chips c and pretzels p for a club meeting. The following system represents this situation.

(-9.8)

epresents this situation.
$$C = 23 - \beta$$

$$0.25c + 0.5p = 7.75$$

$$.25(23-p) + .5p = 7.75$$

 $5.75 - .25p + 5p = 7.75$
 $.25p = 2$

How many of each type of snack did Helen.buy?

At Healthy Hair, the cost of a child's haircut is \$4 and the cost of an adult

haircut is \$14. The sales from the 42 haircuts given on Friday were \$588. How many adults and children had haircuts on

Friday? The answer is the solution to the

& bags of pretzels

4c+14a = 588 -4c-4a=-168 10a = 420 a=42

$$\begin{cases} 4c + 14a = $588 \\ c + a = 42 \end{cases}$$

following system.

(15,8)

42 adults, Ochildren