HW review p. 239 #26

$$\frac{1}{2}x + \frac{1}{4}y = 5$$

$$x - \frac{1}{2}y = 1$$

$$x = \frac{1}{2}y + 1$$

(18)
$$4x-y=17$$
 $-9x+8y=2$
(6,7) $24-7=17\sqrt{-54+56=2}\sqrt{7}$
 $28-6=22+17\times$
 $28-11=17\sqrt{-63+88}=2\times$
(14,7) $44-7=17\times$

\$2.50 = bag of poplars

\$2.50 = bag of poplars

\$336 = saks

$$b = bags of poplars$$
 $\frac{1}{2}b = \# of pretzels$
 $\frac{1}{2}x = y$

$$2.50x + 2y = 336$$
 $2.50x + 2(4x) = 336$
 $2.50x + 2(4x) = 48$
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 $2.50x + 2(4x)$

Solving linear systems:

- Graphing & estimating intersection (not too accords)

- Substitution (accords, but lots of work)

- By adding / subtracting

- easier than substitution

(but you can't always use it!)

Adding Subtracting to solve linear systems:

$$x+5=7$$
 $+\alpha=+b$
 $+\frac{1}{2}=+d$
 $+\frac{1}{3}=2$
 $+\frac{1}{3}=3x+7$

you can add expressions that

you can add expressions that look different if those two expressions are equal to each other

$$7x + 3y = 4$$

 $-5x + 6y = 10$
 $2x + 8y = 14$

$$4y=2x+3$$

 $-5y=x+6$
 $-y=3x+9$

$$4y = 2x + 3$$

$$-x = 5y + 4$$

$$-x = 5y + 4$$

$$-x = 5y + 6$$

$$-x = 5y + 6$$

$$-x = 5y + 6$$

$$-x = 6+x$$

$$-5y = 6+x$$

$$-5y = 6+x$$

$$3x + 3y = 7$$

$$3x - 3y = 3$$

$$5x + 0y = 10$$

$$5x = 10$$

$$x = 0$$

Rewrite the linear system so that the like terms are arranged in columns.

1.
$$8x - y = 19$$

$$y + 3x = 7$$

$$+3x+y=7$$

2.
$$4x = y - 11$$

$$-\frac{6y+4x=-3}{-6y} - \frac{6y+3}{-6y+3} = \frac{7y-8}{0=7y-8}$$

3.
$$9x - 2y = 5$$

$$2y = \frac{11x + 8}{11x} + \frac{11x}{4} +$$

Solve the linear system by using elimination.

(i)
$$x + 5y = 28$$

$$-x - 2y = -13$$

11.
$$7x - 4y = -30$$

$$3x + 4y = 10$$

12.
$$6x + y = 39$$

$$+2x + y = +17$$

$$3y=15$$

 $y=5$
 $x=3(3,5)$

$$6(7)+y=39$$
 $8x=56$
 $42+y=39$ $x=7$
 $y=-3$ $y=-3$

14.
$$2x - 6y = -10$$

15.
$$x - 3y = 6$$
 $-2x = 3y + 33$

13.
$$3x = y - 20$$

 $-7x - y = 40$

Quiz tomorrow:
7.1, 7.2, 7.3 solving linear systems
- graphing
- substitution
- elimination (adding/subtracting)
Homework:
P. 447 3-30 (every 3rd), 40