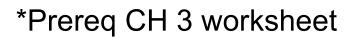
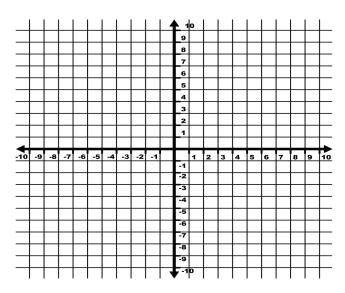
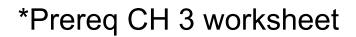
Warm Up

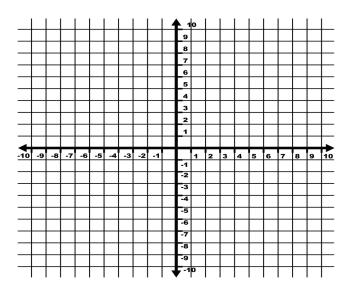
*Hand back tests-Go over them!

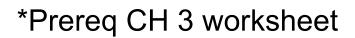
*Check answers to homework

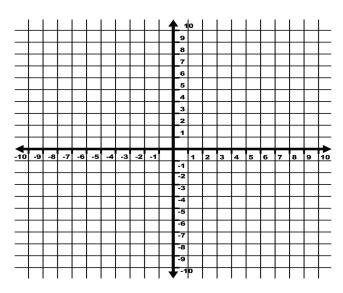












Chapter 3
Systems
(Ch3.1/3.2)Solving Systems
Graphing and Algebraically

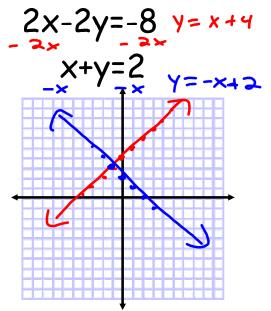
I. 2-Varable Systems

-3x-3x-8

Graphing Method

1. Solve the equations for y.

- 2. Graph by plotting the y-int and using slope to find another point.
- 3. Solution is the intersection point.



I. 2-Varable System

Substitution Method

$$2x - 2y = -8$$

1. Solve one equation for x or y.

x+y=2 ×= < y + 3

2. Substitute this expression into the other equation and

solve.

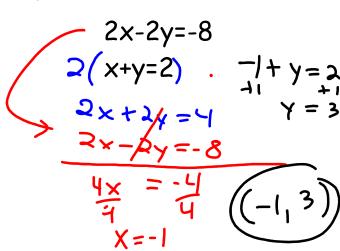
 $-\frac{-1}{4} = -\frac{15}{15}$ $-\frac{1}{5} + \frac{1}{4} - \frac{1}{5} = -\frac{1}{8}$ $-\frac{1}{5} + \frac{1}{4} - \frac{1}{5} = -\frac{1}{8}$ $-\frac{1}{5} + \frac{1}{4} - \frac{1}{5} = -\frac{1}{8}$

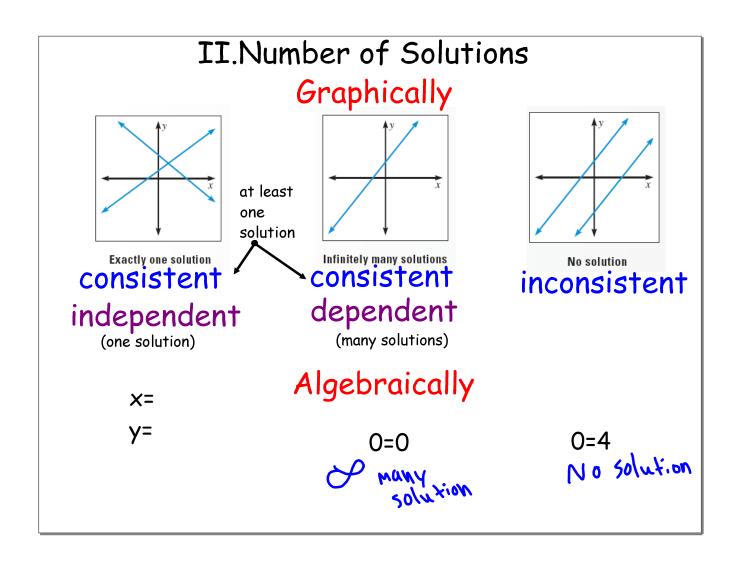
3. Substitute the value to find the other variable.

I. 2-Varable Systems

Elimination/Combination Method

- 1.Multiply one or both equations to get opposites for one variable.
- 2. Add the equations. Solve.
- 3. Substitute the value to find the other variable.





Solid Mixture Problem

A company is making a 20 pound trail mix to sell for \$.93 a pound. The peanuts are \$.79 per pound and the M&Ms are \$1.49 per pound. How many pounds of each must they mix?

$$...79x + 1.49y = .93(20)$$

$$-.79(X + Y = 20)$$

$$-.79(X - .79y = -15.8)$$

$$...79x + 1.49y = 18.6$$

$$...7y = 2.8$$

$$X + 4 = 20$$

$$Y = 4 \text{ lbs M+Ms}$$

$$X = 16 \text{ lbs}$$

$$Pennuts$$

*Try problems #1-3 on Blue ws

Coin Problem

Max has some quarters and dimes in his pocket. If he as twice as many quarters as dimes, for a total of \$4.20 find the number of quarters and dimes in his pocket?

$$X = 9 \text{ uniters} \quad Y = \text{dimes}.10$$

$$25 \times + .10 Y = 4.20$$

$$X = 27 \cdot .25(2y) + .10y = 4.20$$

$$.5y + .10y = 4.20$$

$$X = 2(7) \quad .60y = 4.20$$

$$X = 14 \text{ quarters} \quad Y = 7 \text{ eives}$$

*Try problems #4-6 on Blue ws

III. Application Problems # 7-10

Number Problems

One number stwice the second number minus one. Their sum is 32. Find the numbers.

*Try problems #7-10 on Blue ws

Investment Problem

Mrs. Watkins invests \$4000- some at 4% and the rest at 5%. Find the amount invested at each rate of interest if the total annual return is \$190. x = 4 invested @ 4% y = 4 invested @ 5% y = 4

$$X + y = 4000$$

.04× +.05y = 190

*Try problems #11-13 on Blue ws

#14-16

Geometry Problems
The length of a rectangle sthree times the width. If the area is 75 square inches, find each dimension.

*Try problems #14-16 on Blue ws

Homework:

-Unit Plan Day 1 (3.1/3.2)

-Blue Word Problem WS due Day 3 (Quiz on Day 3-next week)