## What do you know about solving Systems of Equations?

1. What is a system of equations?

A set of two er more equations

2. Three possible solutions for a system of equations:

1 -> point (x,y) 0-7 no solution infinitely many solvis

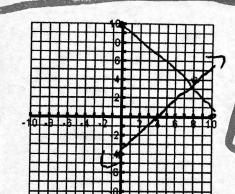
3. Three ways to solve a system of equations:

graphing Substitution elimination / addition

4. Solve by graphing:

x + y = 10x - y = 4

y = -X + 10 y = X - 4



Ars: (7,3)

5. Solve by substitution: 3x + y = -9

-3x - 2y = 12

-3x-2(-3x-9)=12

-3x+6x+18=12

x=-2

Ans: (-2,-3)

6. Solve by elimination (2x + 4y = -4) - 3 (3x + 5y = -3)

Ans: (4,-3)

7. Solve by graphing:

 $y < \frac{2}{3}x - 1$ 

