

- 1] Put each equation in slope intercept form
- 2] Carefully graph the lines
- 3] Estimate the point of intersection
- 4] Check the solution in each equation

$$4x + 2y = 4$$

$$2x - 3y = 10$$

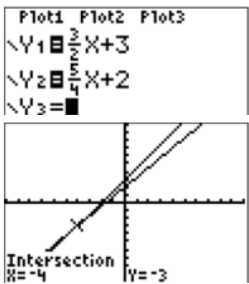
### Example 2

Solve a system graphically by hand

### Example 3

$$3x - 2y = -6$$

$$-5x + 4y = 8$$



Calculator Steps:

- 1]
- 2]
- 3]
- 4]

## Solving Systems with Graphing

System of equations:

Solution of a system:

Consistent:

Inconsistent:

Dependent:

Independent:

- 1] Put each equation in slope intercept form
  - 2] Compare the slope and y-int to classify the system
- (A)  $x - 5y = -5$       $3x - 15y = 9$   
 (B)  $3x - 4y = 5$       $2x + y = 7$   
 (C)  $3x + 4y = 8$       $-6x - 8y = -16$

### Example 1

Classify each system of equations

### Classifying Linear Systems

	Graph	Type of lines	Solutions	Equations
Consistent and independent				
Consistent and dependent				
Inconsistent				