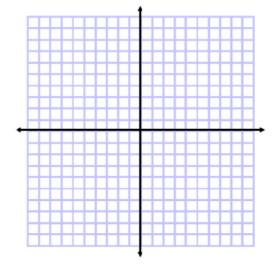
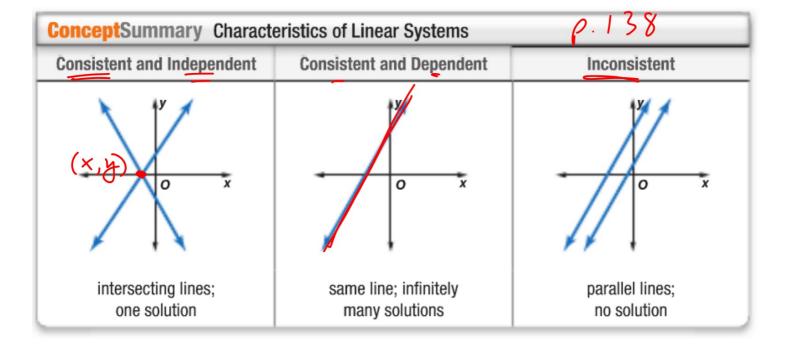
Algebra 2 3.1
Solve systems of linear equations graphically*
Solve systems of linear equations using tables :(
Solve systems of linear equations algebraically*

2 or more eg.

system

- -consistent
- -independent
- -dependent
- inconsistent
 substitution method (cut & paste)
 elimination method (make zero pairs)
 whiteboards



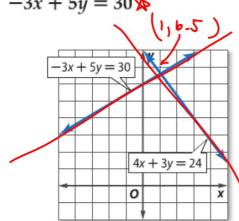


Example 3 Classify Systems



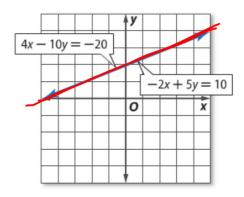
Graph each system of equations and describe them as consistent and independent, consistent and dependent, or inconsistent.

a.
$$4x + 3y = 24 + y = -3x + 5y = 30$$



b.
$$-2x + 5y = 10$$

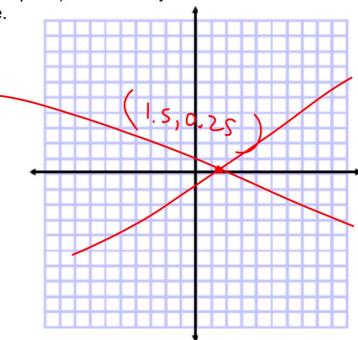
 $4x - 10y = -20$



Where do the lines intersect? (IF they do...)

Estimate answers (ordered pairs) if necessary.

Be as precise as possible.



Example 2 Solve by Graphing

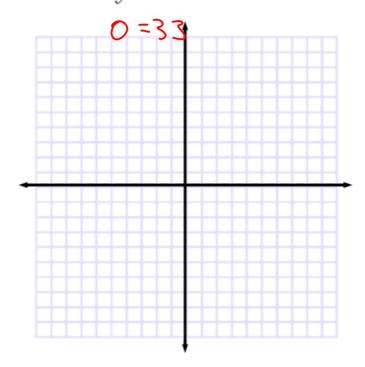
Solve the system of equations by graphing.

$$2x - y = -1$$
 $2y + 5x = -16$

GuidedPractice

3A.
$$6x - 4y = 15$$

 $-6x + 4y = 18$



Cut & Paste: review from Alg.1 Ch. 7

KeyConcept Substitution Method

Step 1 Solve one equation for one of the variables.

Step 2 Substitute the resulting expression into the other equation to replace the variable. Then solve the equation.

Step 3 Substitute to solve for the other variable.

You are the coach
The players can play either position...

$$x = (4, -1)$$

edPractice $x = (4, -1)$

Use substitution to solve each system of equations.

Review from Alg 1 Ch. 7 Elimination: form zero pairs

$$(2, -3)$$

Use elimination to solve the system of equations.

$$5x + 6y = -8$$
$$2x + 3y = -5$$

$$2.2 + 3y = -5$$
 $4 + 3y = -5$
 -4
 $3y = -5$

elimination: form zero pairs

1A.
$$6x - 2y = 10$$

 $3x - 7y = -19$

1B.
$$9r + q = 13$$

 $3r + 2q = -4$

3.1 27-570 aufricod.