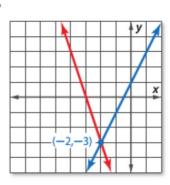
Algebra 1 6.2 Solve systems of equations using substitution method Solve problems using substitution of equations

solve solve by graphing substitution substitution method no solution vs all real whiteboards you are the coach... matching activ (if time)



Remember cut & paste activity? You are the coach.

GuidedPractice

Guided Practice

1A.
$$y = 4x - 6$$

$$5x + 3y = -1$$

$$5x + 3(4x - 6) = -1$$

$$5x + 13x - 18 = -1$$

$$17x - 18 = -1$$

$$+18$$

$$17x = 17$$

$$17x = 17$$

X=1

KeyConcept Solving by Substitution

- Step 1 When necessary, solve at least one equation for one variable.
- Step 2 Substitute the resulting expression from Step 1 into the other equation to replace the variable. Then solve the equation.
- Step 3 Substitute the value from Step 2 into either equation, and solve for the other variable. Write the solution as an ordered pair.

Make a good choice about which one is the sub list.

8+2.-1=6

Example Solve and then Substitute

Use substitution to solve the system of equations.

GuidedPractice

$$2A. 4x + 3y = 11$$
 $y - 3x = -13$
 $+ 5x = 2x$
 $4x + 3y = -20$
 $4x + 3y =$

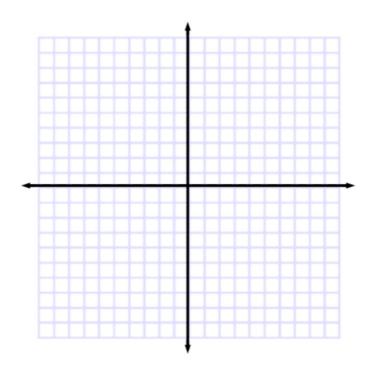
2B.
$$x-3y=-9$$
 $5x-2y=7$
 $5(3y-9)-2y=7$
 $13-9$
 $13y-45=7$
 $13y-45=7$
 $13y-45=7$
 $13y-45=7$

Whiteboards

$$4rick = 8$$
 $y=2x+3$
 $2x-y=-5$
 $3x+3y=-5$
 $3x+3y+3=-5$
 $3x+3y+3=-5$

$$y = 5x + 3$$

10x + 6 = 2y



So when is it "no solution" and when is it "all numbers"? How to tell?