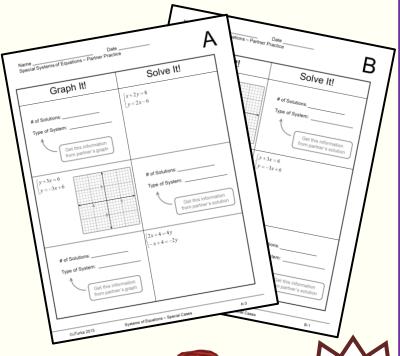


Systems of Equations – Special Cases (Partner Practice Sheet)

~by Jason Turka

One students graphs the system of equations and the other solves it. Answers are compared and roles reversed for the next problem

- ✓ Solve and graph systems
- ✓ Independent, dependent, and inconsistent systems





See more resources



Common core aligned

Systems of Equations – Special Cases (Partner Practice Sheet)

Common Core Standard: HSA-REI.C.6



About this Product:

These worksheets have been written as guided/independent practice on special systems of equations (differentiating between independent, dependent, and inconsistent systems.)

This topic is one that is taught best when students are able to analyze solutions and graphs... and not their similarities and differences. This worksheet encourages students to complete problems efficiently and compare answers. The lesson fosters cooperation and peer tutoring because each partner benefits when their partner understands the material.

Image Credit: www.clker.com - OCAL



Timeframe:

This activity is a good one for day #2 of instruction on this topic. On day #1, I use the <u>Systems of Equations</u>
<u>Foldable (For Special Cases)</u> as the class notes, then assign homework. On day #2, we review the homework problems then do this activity. It takes between 15-30 minutes for students to complete this sheet and compare with their partner.



During the Activity:

Have students pair up and pass out the sheets. One partner works on worksheet A and the other does worksheet B.

Connect with me:

Visit my free math website: www.freemathresource.com

Visit my TpT store: http://www.teacherspayteachers.com/Store/Jason-Turka

See this product online: http://www.teacherspayteachers.com/Product/Systems-of-Equations-

Special-Cases-Partner-Practice-Sheets

Thank you for sharing this worksheet with your students. I am very interested in hearing about your experience. Feel free to leave me feedback on the site or email me at algebrasuccess@gmail.com.

Thanks, Jason



Solve It!

of Solutions: _____

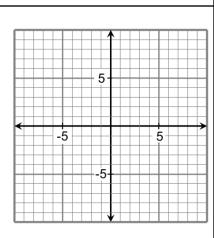
Type of System: _____



Get this information from partner's graph

$$\begin{cases} x + 2y = 8 \\ y = 2x - 6 \end{cases}$$

 $\begin{cases} y + 3x = 6 \\ y = -3x + 6 \end{cases}$



of Solutions: _____

Type of System:

Get this information from partner's solution

of Solutions: _____

Type of System:

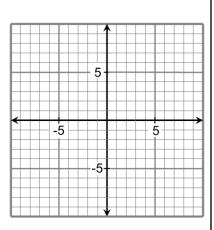


Get this information from partner's graph

	2x + 4 = 4y
1	2x+4=4y $-x+4=-2y$

Solve It!

$$\begin{cases} 2x + 2y = 12\\ x = 2y + 3 \end{cases}$$



of Solutions: _____

Type of System:



Get this information from partner's solution

of Solutions: _____

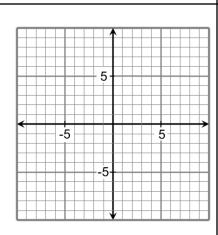
Type of System: _____



Get this information from partner's graph

$$\begin{cases} -18x + 12y = 24\\ 3x - 2y = -4 \end{cases}$$

$$\begin{cases} y = 3x + 1 \\ y = 3x - 4 \end{cases}$$



of Solutions: _____

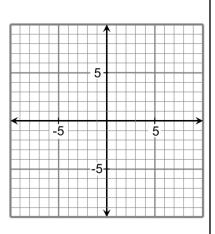
Type of System:



Get this information from partner's solution

Solve It!

$$\begin{cases} x + 2y = 8 \\ y = 2x - 6 \end{cases}$$



of Solutions: _____

Type of System:



Get this information from partner's solution

of Solutions: ____

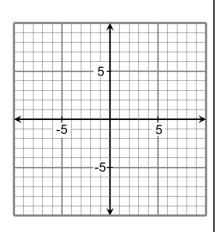
Type of System:



Get this information from partner's graph

$$\begin{cases} y + 3x = 6 \\ y = -3x + 6 \end{cases}$$

2x + 4 = 4y-x + 4 = -2y



of Solutions: _____

Type of System:

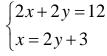


Get this information from partner's solution

Solve It!

of Solutions: _____

Type of System: _____

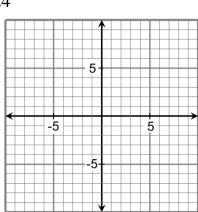




Get this information from partner's graph

$$\int -18x + 12y = 24$$

$$3x - 2y = -4$$



of Solutions: _____

Type of System:



Get this information from partner's solution

of Solutions: _____

Type of System:



Get this information from partner's graph

y	=	3x	+	1
y	=	3 <i>x</i>	_	4

Solve It!

of Solutions:

Type of System: Independent

Get this information from partner's graph

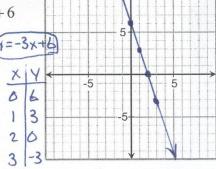
x+27=8 x+2(2x-6)=8 $\int x + 2y = 8$ x+4x-12=8

5x-12=8 Y=2X-6 y = 2(4) -6

X=4 1=2

 $\int y + 3x = 6$ y = -3x + 6

Y+3x=6) (Y=-3x+6)



of Solutions: Infinite

Type of System: dependent

Get this information from partner's solution

+12 +12 5x = 20

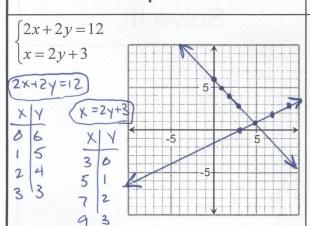
of Solutions: ____

Type of System: Inconsistent

Get this information from partner's graph $\begin{cases} 2x + 4 = 4y & -2x + 4 = 4y \\ (-x + 4 = -2y) \times (z) = & -2x + 8 = -4y \end{cases}$

* The variables concel out and 12 \$0, so there are no Solutionso

Solve It!



of Solutions:

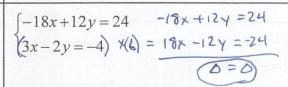
Type of System: Independent

Get this information from partner's solution

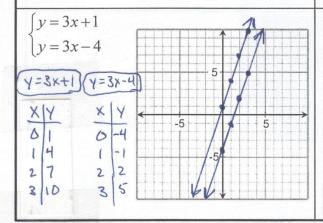
of Solutions: Infinite

Type of System: dependent

Get this information from partner's graph



to The variables cancel out and 0=0, so there are on infinite number of solutions.



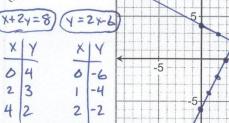
of Solutions:

Type of System: Inconsistent

Get this information from partner's solution

Solve It!





of Solutions:

Type of System: Independent

Get this information from partner's solution

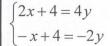
of Solutions: Infinite

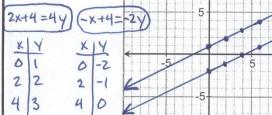
Type of System: dependent



Get this information from partner's graph y + 3x = 6y = -3x + 6 (3x+6)+3x = 6 -3x+3x+6=6

* The variables consel out and 6=6, so there are an infinite number of solutions





of Solutions:

Type of System: Inconsistent

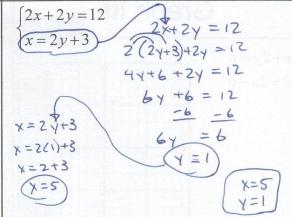
Get this information from partner's solution

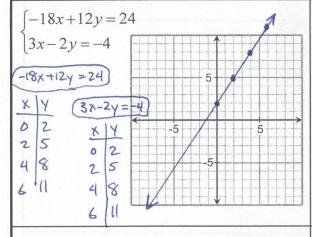
Solve It!

of Solutions: _____1

Type of System: Independent

Get this information from partner's graph





of Solutions: Infinite

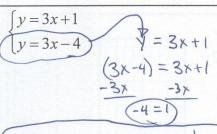
Type of System: dependent

Get this information from partner's solution

of Solutions:

Type of System: Inconsistent

Get this information from partner's graph



* The variables concel out and -4 \$1, so there are no salutions.