PAP Algebra 2

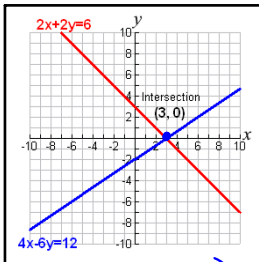
Solving a System of Equations by Graphing

Jul 22-10:44 AM

41, $25(8s + 12\ell = 100)$ 64
$-8(25s + 50\ell = 350)$

$200s + 300\ell = 2500$
$-200s - 400\ell = -2800$
$-100\ell = -300$
$-100 \quad -100$
$\ell = 3 \quad s = 8$

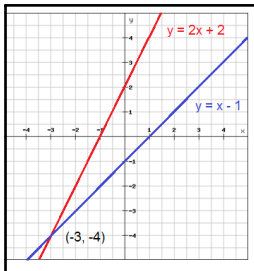
Sep 14-8:30 AM



Consistent independent

(3,0)

Jul 22-10:45 AM



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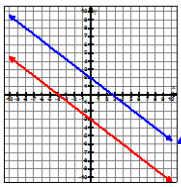
Parallel Lines



4x+6y=12

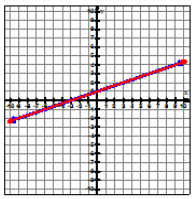
2x+3y=-9

inconsistent

No Solution

Jul 22-10:48 AM

Coinciding Lines



$y = \frac{1}{3}x + 1$

x - 3y = -3

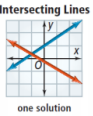
Consistent dependent

infinitely many solutions

Jul 22-10:48 AM

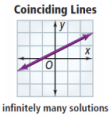
System of equations—set of two or more equations containing two or more variables

Intersecting Lines



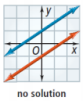
one solution

Coinciding Lines



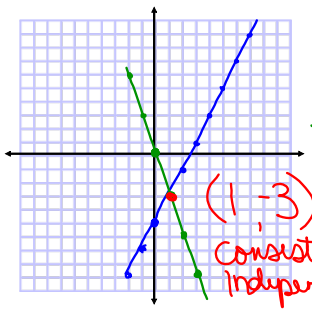
infinitely many solutions

Parallel Lines



no solution

Jul 22-9:39 AM



y=2x-5

3x+y=0

-3x -3x

y=-3x+0

$y = mx + b$

slope 2nd

1st

(1, -3)

Consistent Independent

Aug 8-10:16 AM

Conclusion

1. Create a system of equations with no solution. Then explain why your equations work.

2. Create a system of equations with infinitely many solutions. Then explain why your equations work.

3. Create a system of equations with one solution. Then explain why your equations work.

4. Questions??????

① $y=\frac{1}{3}x+1$ $y=\frac{1}{3}x-5$

② $-3x=-y+3$ $y=3x+3$ $4y=12x+12$

③ $y=3x+5$ $y=-\frac{1}{3}x+3$

Jul 22-10:57 AM

Assignment

Page 186

6 - 9, 19 - 22, 28 - 31, 35 - 37 (only equation and solution)

Jul 22-11:07 AM