DO NOW

Recall the 3 Types of Systems:

- 1. Consistent and independent Ly one point of intersection Answer: (x,y)
- 3. Inconsistent

 > parallel lines

 Answer: No solution

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5.3 <u>Mixed Solving for Systems of Linear Equations</u>

3 methods for solving:

- 1. Graphing Method
 -find point of intersection
- 2. Substitution Method

 GooD→ if one equation is "y=" or "x="

 BAD→ if no coefficient of 1.
- 3. Addition (or elimination) Method GOOD → opposite coefficients in AX+By=C form

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Which method would be a good choice to solve the following?

1.
$$3x - y = 13$$

 $2x + 3y = 16$

Addition or Substitution

$$2. y = x - 2
3x - y = 16$$

Substitution

3.
$$3a + 5b = 11$$

 $-2a + 3b = 18$

Addition

4.
$$x + y = 0$$

$$y - x = 6$$

Addition or Substitution

5.
$$2x + 3y = 7$$

 $4x - 5y = 25$
Addition

6.
$$y = 2x$$

 $x + y = 21$
Substitution

HOMEWORK

Worksheet - HW 5.3 Mixed Solving

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