

Mind 42.com - extract

$$\begin{aligned} 2(2x + y) &= 3 \\ 3x - 2y &= 5 \end{aligned}$$

$$y = -\frac{1}{7}$$

$$\begin{array}{r} 4x + 2y = 6 \\ 3x - 2y = 5 \\ \hline 7x = 11 \end{array}$$

$$x = \frac{11}{7}$$

$$\begin{aligned} 2\left(\frac{11}{7}\right) + y &= 3 \\ \frac{22}{7} + y &= \frac{3 \cdot 7 - 22}{7} \\ y &= -\frac{1}{7} \end{aligned}$$

9.7 day 2

linear

{ ( [ set of solids in 1-D

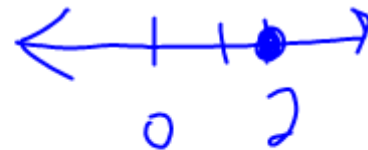
Solve

linear equations  
1-variable 1-D

$$2x + 1 = 5$$

$$2x = 4$$

$$x = 2$$



$$\{2\}$$

$$2x + 1 \leq 5$$

$$2x \leq 4$$

$$\{x \mid x \leq 2\}$$



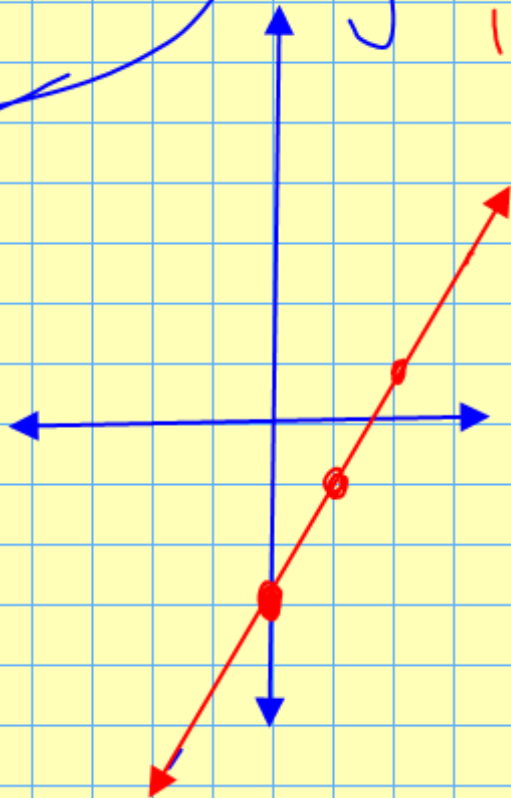
interval notation

$$(-\infty, 2]$$

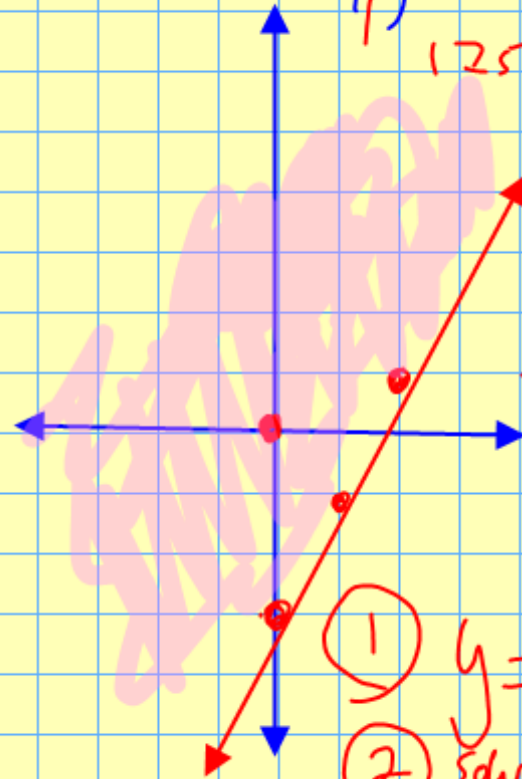
= { 1-D } < >

2-D

$$y = 2x - 3$$

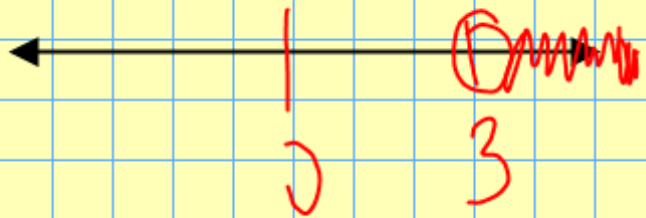


$$y \geq 2x - 3$$



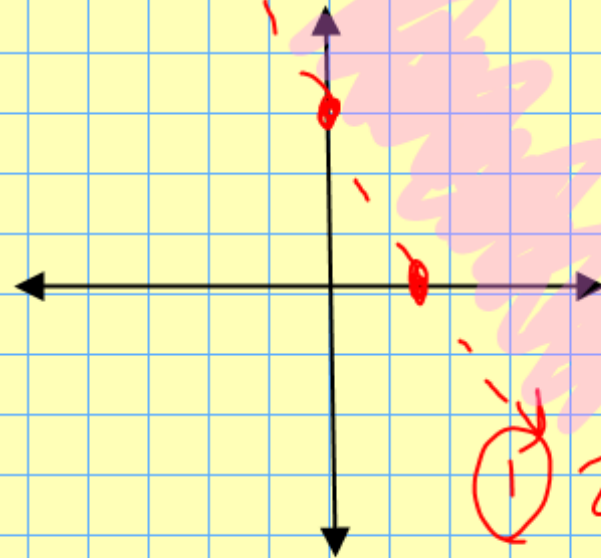
- ①  $y = 2x - 3$
- ② solid or dotted
- ③ test point  
(0, 0)

$$1-d) \quad X > 3$$



Numerical  
answer = interval  
nota.  
 $(3, \infty)$

$$2-1 \quad \begin{matrix} 0 & 3 \\ 2x & + y > 3 \end{matrix}$$



①  $2x + y = 3$

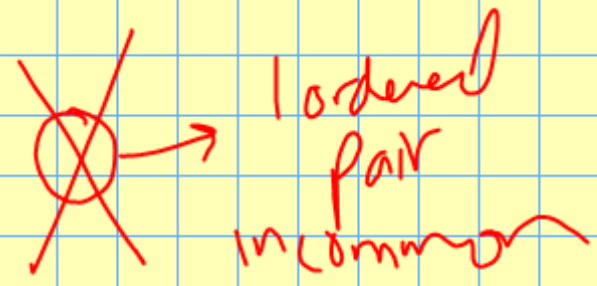
x	y
0	3
1.5	0

$2x = 3$

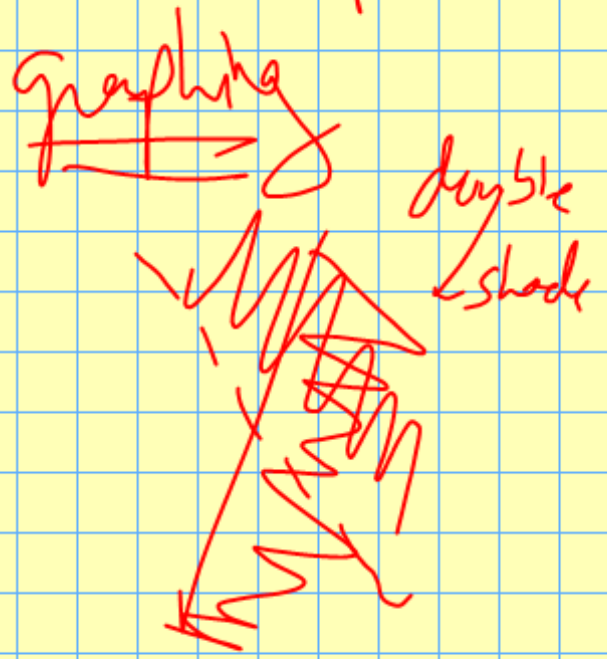
③  $(0, 0)$   
 $0 + 0 > 3$

2-D  
Solving a System of  
linear equations  
⇒

1. Graphing
2. Substitution
3. Addition



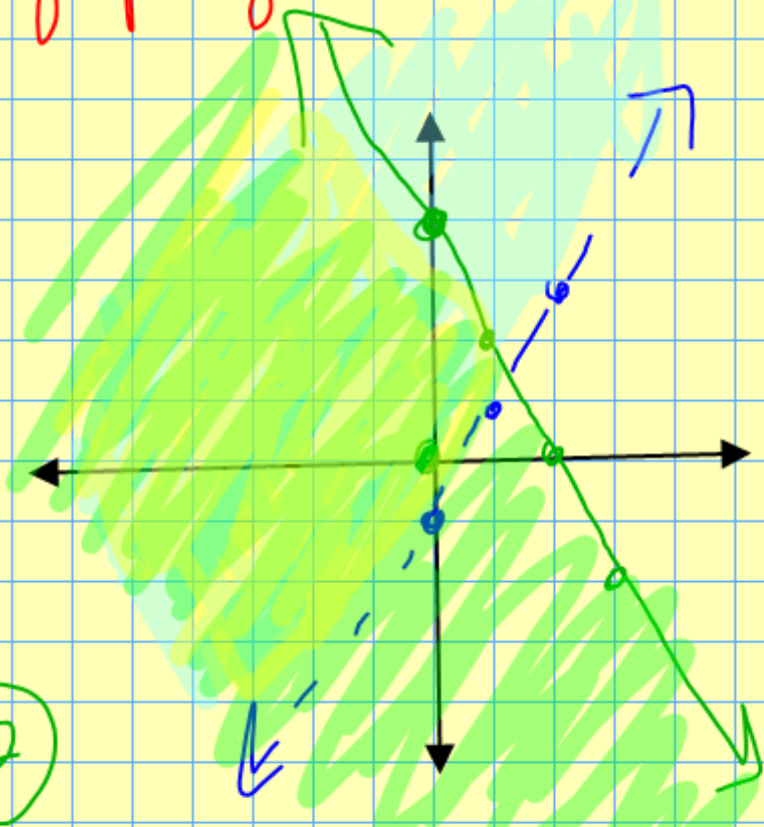
Solving a  
System of linear  
inequal  $<$   $>$



Solve by graphing

①  $y > 2x - 1$

②  $2x + y \leq 4$   
 $0 + 0 < 4$



①  $y > 2x - 1$

②  $y = 2x - 1$

(5) - 1 - - - - - test (3,1)

(c) shade

②  $2x + y = 4$  test (0,0)

$y = -2x + 4$

## ework: HW 9.7 (day 2)

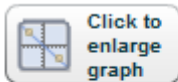
Ex. Score: 0 of 1 pt

HW S

Graph the solution of the system of linear inequal

$$\textcircled{1} \begin{cases} y < -3x + 2 \\ y < x - 5 \end{cases}$$

Use the graphing tool to graph the system of ineq



$$\textcircled{1} \begin{aligned} y &= -3x + 2 \\ \text{test } (2, 2) \\ 2 &< -4 \quad F \end{aligned}$$

$$\textcircled{2} \begin{aligned} y &= x - 5 \\ \text{test } (0, 0) \\ 0 &< 0 - 5 \quad 0 < -5 \\ & \quad \quad \quad F \end{aligned}$$

Choose a tool in the palette and follow instructions to create your graph

