Bellwork to complete alone:

Error Analyses in TRAY!

Graph on the same axes. Find the intersection point of the lines also.

$y - 2x \leq 8$

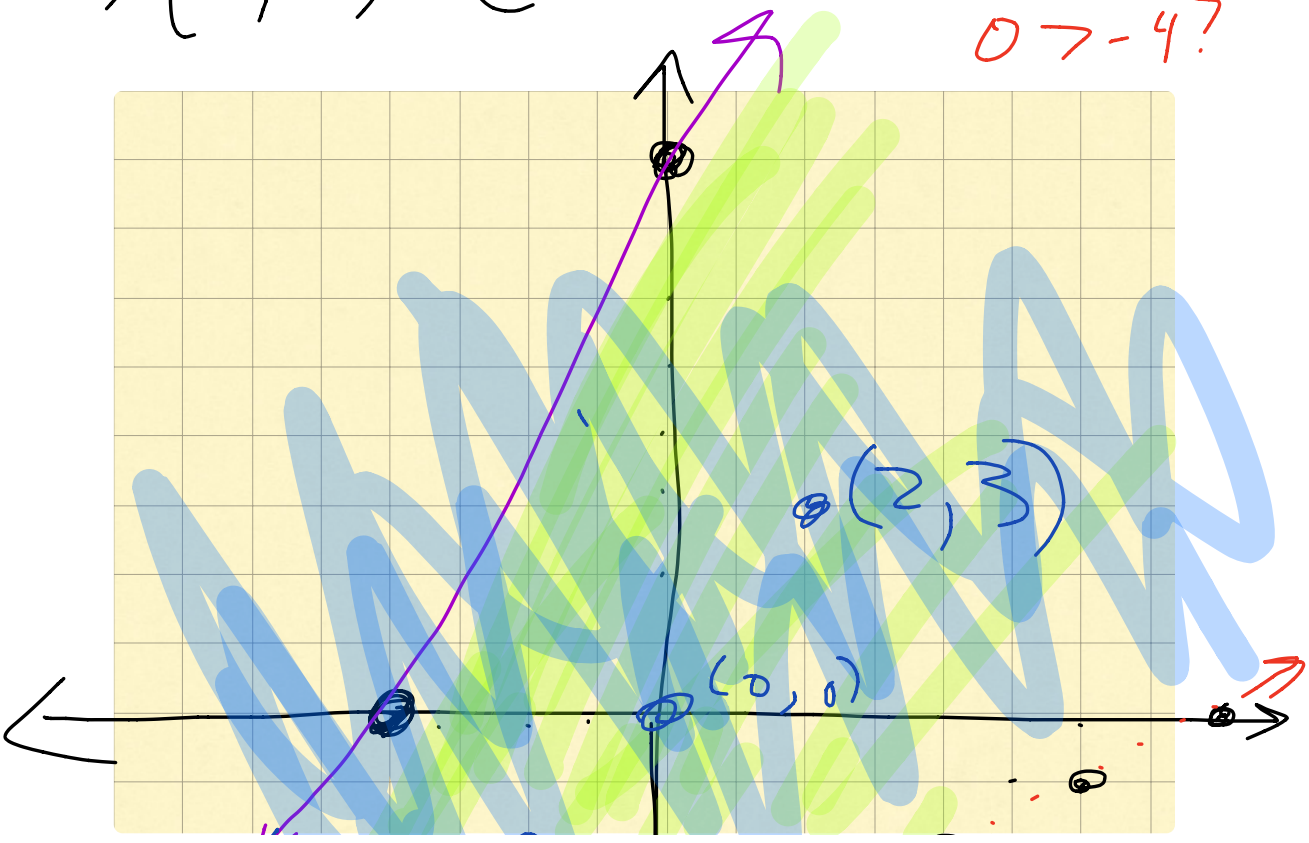
$y > \frac{1}{2}x - 4$

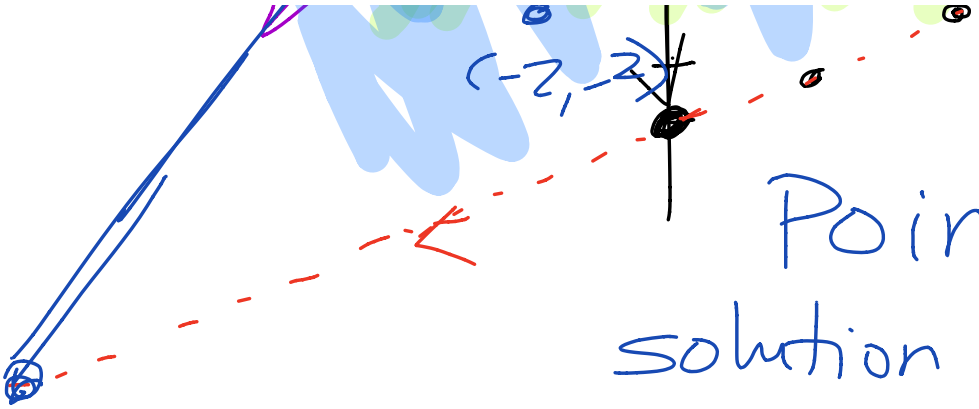
Use Graph Paper & Straightedge!

(0, 8) (−4, 0)

$0 > \frac{1}{2} \cdot 0 - 4$?

$0 > -4$?





Points in solution region

(0, 0), (2, 3)

(-2, -2)

Use algebra (analytical) solution

$y - 2x = 8$

$y = \frac{1}{2}x - 4$

Subst. bc y is isolated

$\frac{1}{2}x - 4 - 2x = 8$

$-\frac{3}{2}x - 4 = 8$

$-\frac{3}{2}x = 12$

$x = -8$

$y = \frac{1}{2}(-8) - 4$

$y = -8$

$(-8, -8)$

① 52 dolls

blue eyes

green eyes

16 more blue than green

Let b = # of dolls w/ blue eyes.

Let g = # of dolls w/ green eyes

$$\begin{cases} b+g=52 \\ b=g+16 \end{cases}$$

$$g+16+g=52$$

$$2g=36$$

$$g=18$$

$$b=16+18=34$$

34 blue-eyed dolls & 18 green-eyed dolls

③ Eldora

15 boxes ppr clps

7 pkgs index cards

$55.40

Finn

12 boxes p.c.

10 pkgs. i.c.

$61.70

Let

x = cost of one box of paper clips

y = cost of one pkg. of index cards

$10(55.40 = 15x + 7y)$

$-7(61.70 = 12x + 10y)$

$554 = 150x + 70y$

$-431.9 = -84x - 70y$

$122.1 = 66x$

$\$1.85 = x$

$55.40 = 15(1.85) + 7y$

$55.40 = 27.75 + 7y$

$27.65 = 7y$

$y = \$3.95$

paper clips: $\$1.85$/box

index cards: $\$3.95$/pkg.