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* no class or office hours July 4, 5, 6, 7, or 8.
→ Finish 8.6 (p. 118)
→ Start 8.7 (pp. 119-120)

Page 118) 8.6

#5

$$\begin{cases} y = \boxed{x^2} + 4 \\ y = \boxed{x^2} + 1 \end{cases}$$

$$\begin{cases} y = x^2 + 4 \\ y = x^2 + 1 \end{cases}$$

$$\begin{cases} y = x^2 + 4 \\ -1(y = x^2 + 1) \end{cases}$$

$$+\begin{cases} y = x^2 + 4 \\ -y = -x^2 - 1 \end{cases}$$

$$0 = 0 + 3$$

$$0 \neq 3$$

false → contradiction.
no solution.

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Page 118) 8.6

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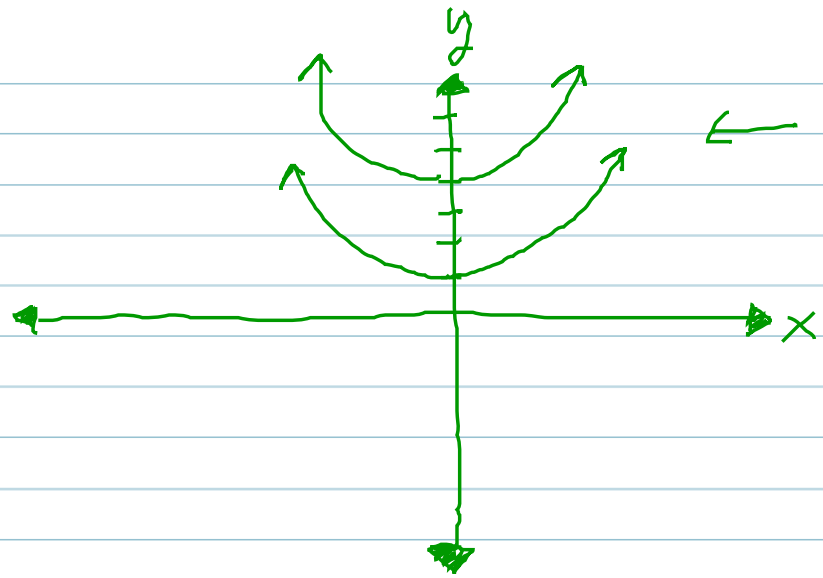


← Same function, different height.

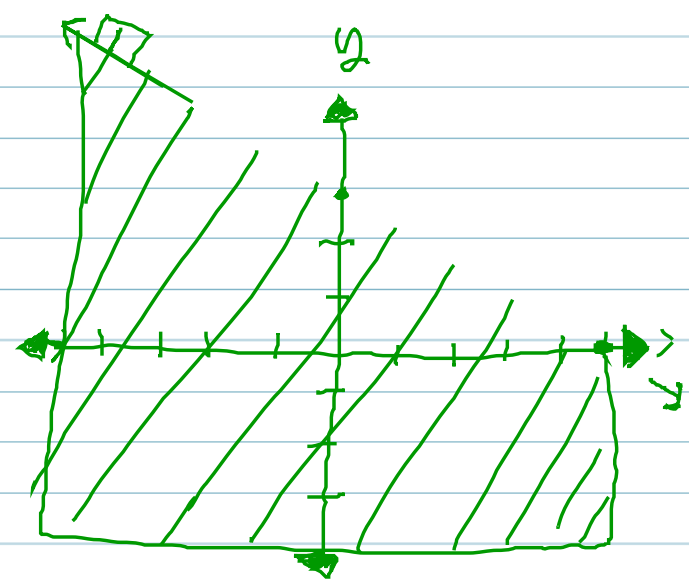
page 119 **8.7** ~~Linear Inequalities.~~

Systems of Linear inequalities.

#1a Graph the System

$$\begin{cases} 3x + 5y \le 15 & \boxed{1} \\ 5x - 3y \le 0 & \boxed{2} \end{cases}$$

$\boxed{1}$ $3x + 5y \le 15$

$5y \le -3x + 15$

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