

$$y = |4x - 8| + 3$$

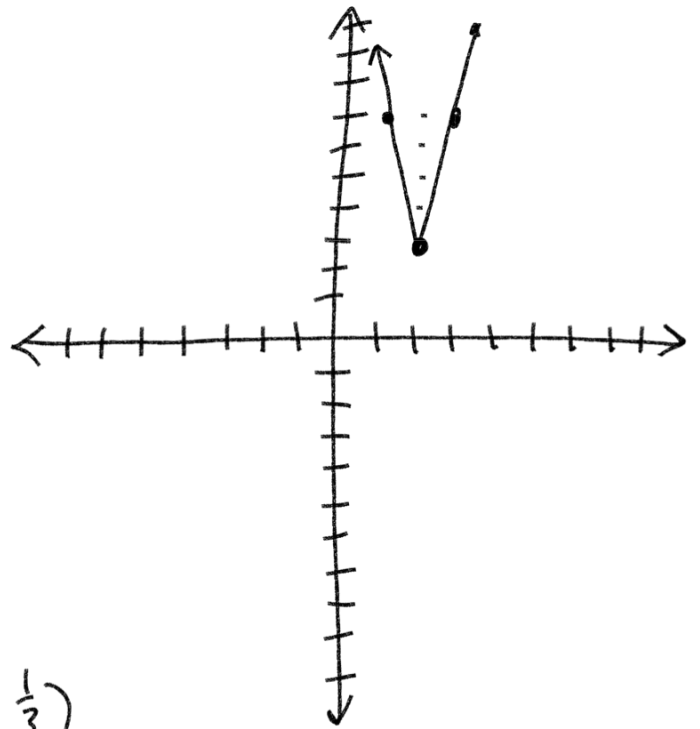
← 4
← 4

vertex (2, 3)

$$y = |4(x - 2)| + 3$$

opposite
↑

slope



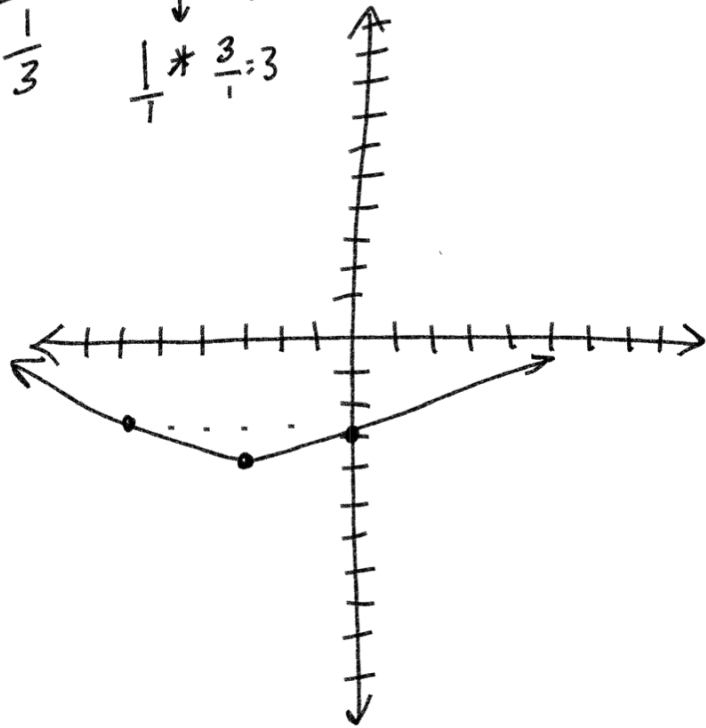
$$\frac{1}{\frac{1}{3}} \quad | \div \frac{1}{3} |$$

$$\frac{1}{1} * \frac{3}{1} = 3$$

$$y = \left| \frac{\frac{1}{3}x}{\frac{1}{3}} + \frac{1}{\frac{1}{3}} \right| - 4$$

$$\frac{1}{3}(x + 3) - 4$$

vertex: (-3, -4)



①.

$$y = - \left| \frac{3x + 12}{3} \right| - 2$$

flip

$$y = - \left| \frac{-3}{3} (x + 4) \right| - 2$$

slope

vertex $(-4, -2)$

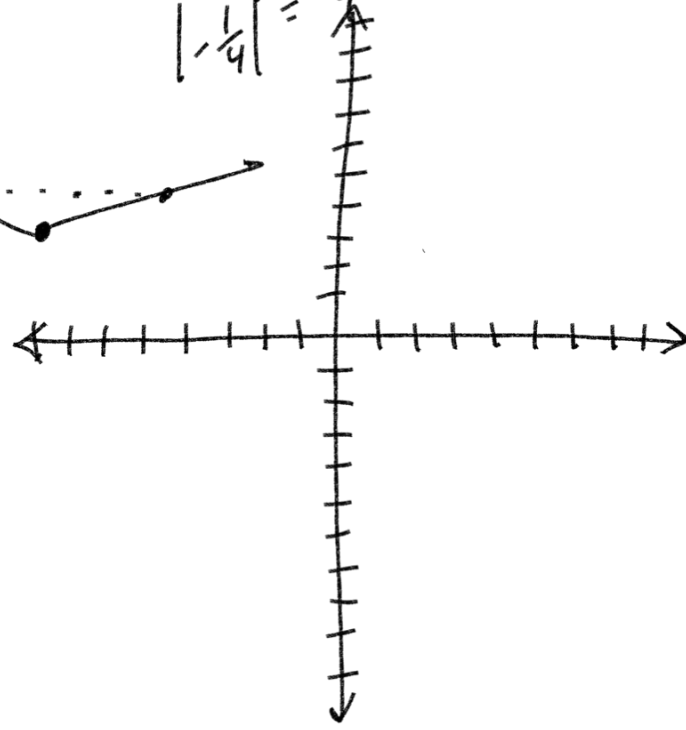
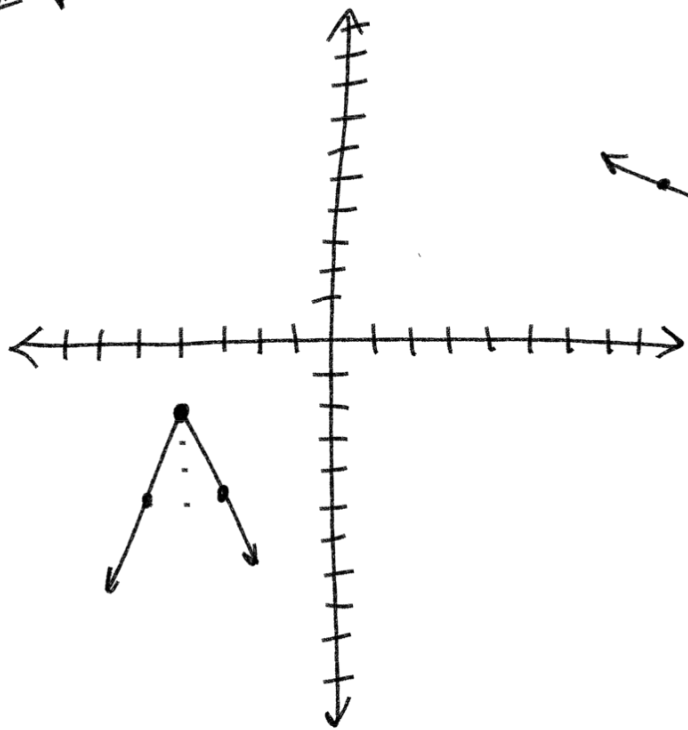
$$y = \left| \frac{-\frac{1}{4}x - 2}{-\frac{1}{4}} \right| + 3$$

$(-8, 3)$

$$y = \left| -\frac{1}{4}(x + 8) \right| + 3$$

vertex: $(-8, 3)$

$$\left| -\frac{1}{4} \right| = \frac{1}{4}$$



$$4x + 2y \geq 16$$

$$[y < 3x - 4]$$

$y = mx + b$
 slope m y-int b

$x=0$ $(0, 8)$

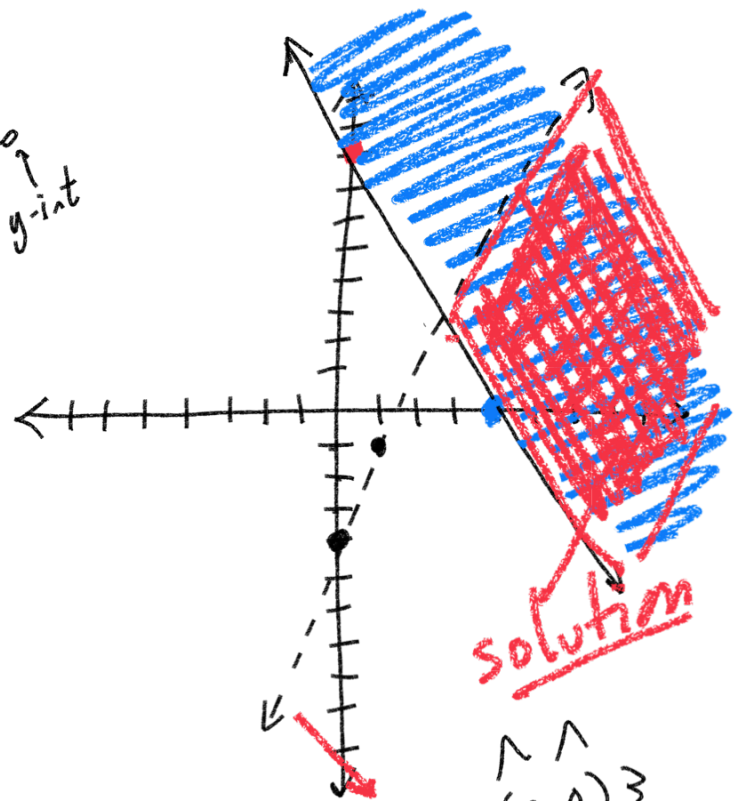
~~$x + 2y \geq 16$~~
 $4(0) + 2y = 16$
 $\frac{2y}{2} = \frac{16}{2}$
 $y = 8$

$4x + y \geq 16$
 $(4, 0)$ $\frac{4x}{4} = \frac{16}{4}$ $x = 4$

$\begin{cases} 4x + 2y \geq 16 \\ 4(0) + 2(0) \geq 16 \\ 0 \geq 16 \text{ false} \end{cases}$
 $\{ (0, 0) \}$
 $\{ (0, 0) \}$

$y < 3x - 4$
 $0 < 3(0) - 4$
 $0 < 0 - 4$

$\{ (0, 0) \}$
 $0 < -4$ false



HW
 ch 2 Pre-Test!
 Optimal HW 12
 ch 2 Test

