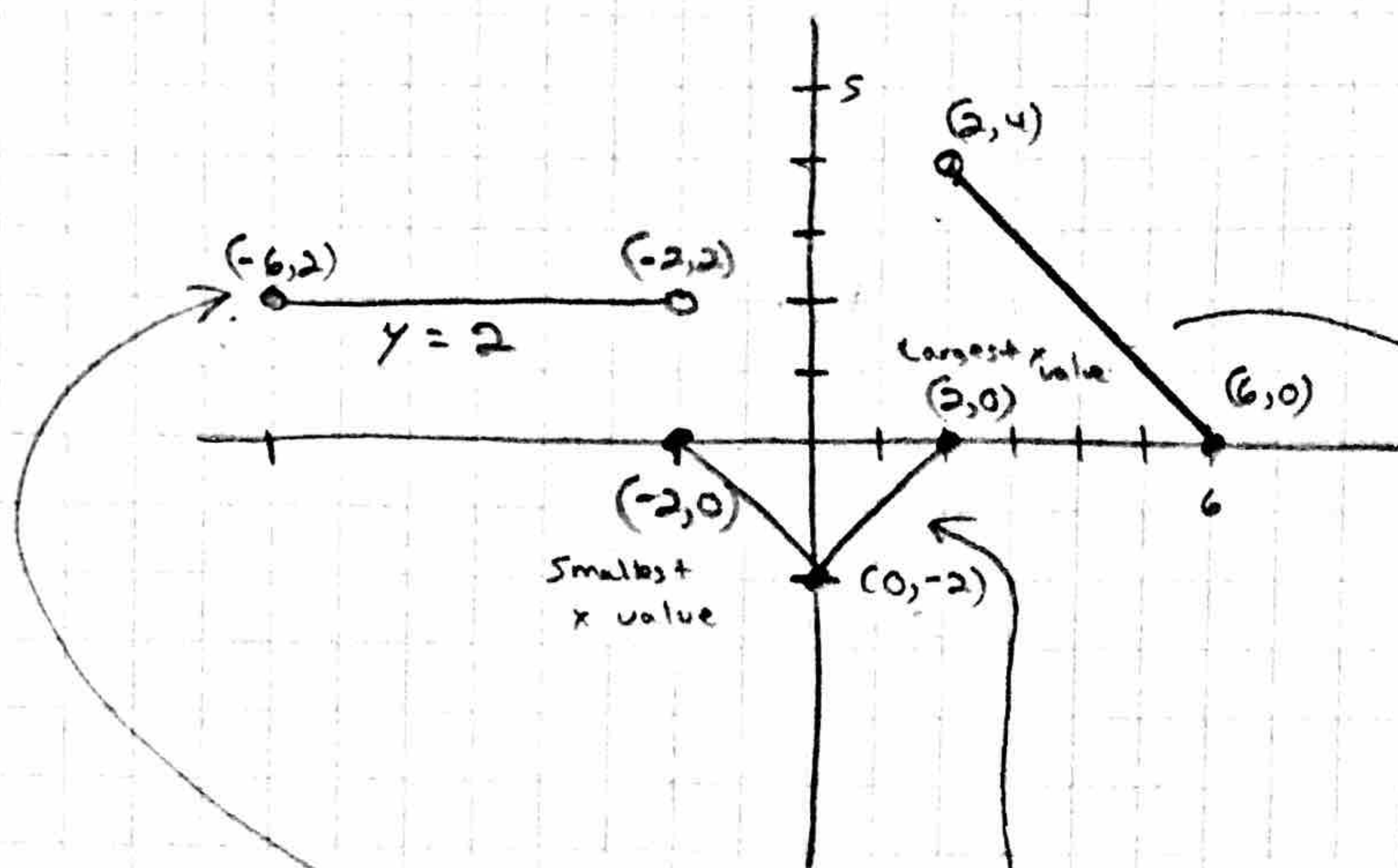


Find Formula for a Piecewise Function From Graph



3 lines represent
3 formulas

Construct line
equation

$$f(x) = \begin{cases} 2, & \text{focus on } y, -6 < x < -2 \\ |x| - 2, & \text{focus on } x, -2 \leq x \leq 2 \\ -x + 6, & 2 < x \leq 6 \end{cases}$$

$$y - y_1 = m(x - x_1)$$

$$m = \frac{4 - 0}{2 - 6} = \frac{4}{-4} = \boxed{-1}$$

$$y - (0) = -1(x - 6)$$

$$y - 0 = -1x + 6$$

$$\begin{array}{r} +0 \qquad +0 \\ \hline y = -\frac{1}{1}x + 6 \end{array}$$

or

$$\boxed{y = -x + 6}$$

$$-x + 6$$