C11 - 7.4 - Quadratic Absolute Value Notes

$$y = |x^2 - 4|$$

"+" case:

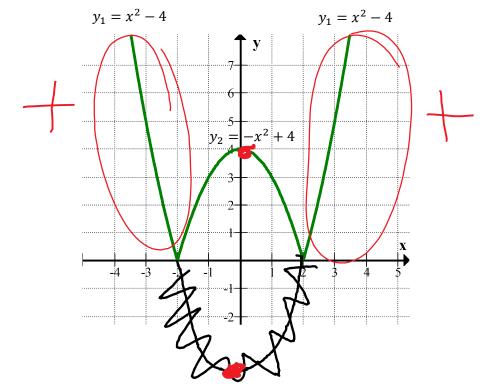
$$y_1 = +(x^2 - 4)$$

$$y_1 = x^2 - 4$$

$$y_2 = -(x^2 - 4)$$

$$y_2 = -x^2 + 4$$

$$y = |x^2 - 4|$$



Notice the graph of $y = |x^2 - 4|$ is the graph of $y_1 = x^2 - 4$ less than two and greater than two and is the graph of $y_2 = -x^2 + 4$ less than two and greater than negative two.

