2) Find abs may/min: $\sqrt{4-\chi^2}$.
f(x) = \(4-x^2 \). So, abs. max/min exist!
$f'(x) = \frac{-x}{\sqrt{4-x^2}} \text{Se, } 0 \text{ is the only critical point.}$ on $(-2, 2)$
· f(0) = 2 Thus, abs mex. value is 2.
- f(2) = 0. abs. min value = 0 @ points (2,0), (2,0).
Note: this is what we found out in Example 4 of nurve sketching
F30) (20)
So, while sketching curves, if you find domain is a closed interval, then you have to apply the closed the interval lest? to find maximin to help you
draw.