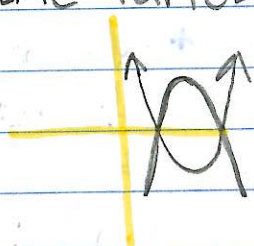
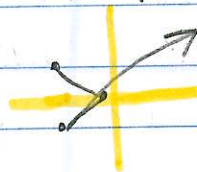


Function Absolutes

- $g(x) = |f(x)|$
- A conditional vertical reflection of the function.

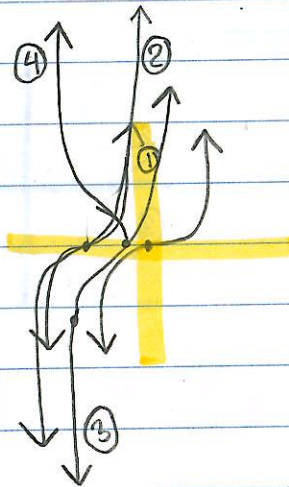
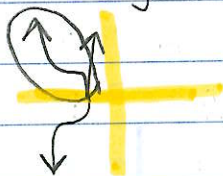


$$f(x) = \sqrt{x} \quad |f(x)|$$



- Identify the parts of $f(x)$ that are in Quadrant 3 & 4. Then reflect those pieces vertically over the x-axis.

$$f(x) = x^3 \quad g(x) = |x^3|$$



Ex 2: $y = |3(x+2)^3 - 5|$

② V: x = -2 ① HT: L2 yT: 0.5

$$0 = 3(x+2)^3 - 5$$

+5/3 /3 +5

$$\sqrt[3]{\frac{5}{3}} = (x+2)$$

3-2 -2

$$\sqrt[3]{\frac{5}{3}} - 2 = x$$