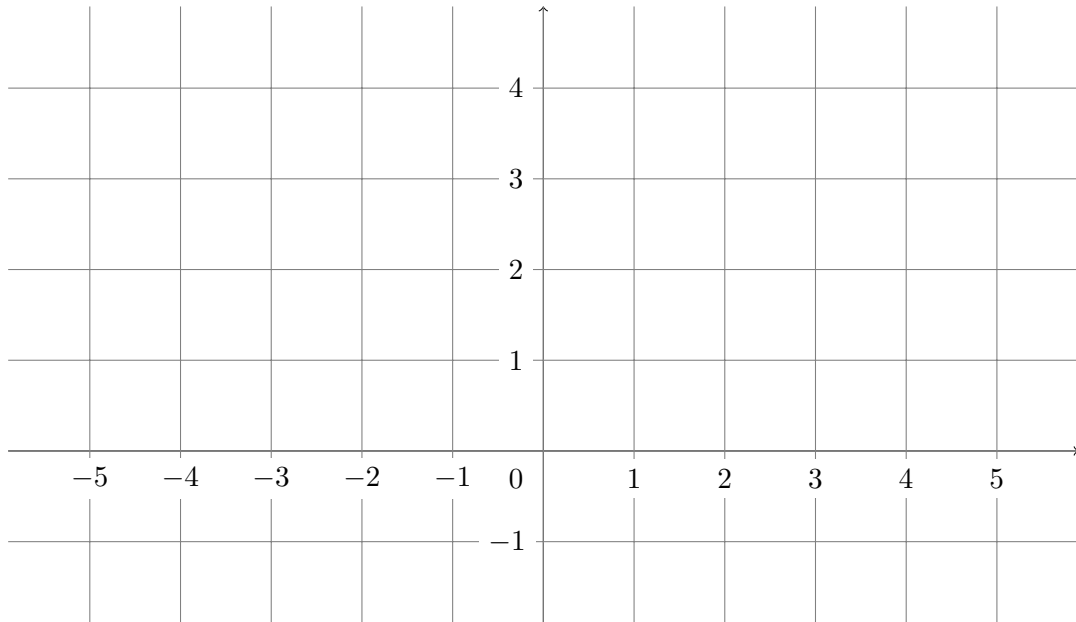


1. (6 pts) On the following axes, sketch a careful graph of the function $y = \sqrt{x+4}$. Sketch and clearly mark the line tangent to the graph at $x = 0$, and also sketch a few secant lines that approach this tangent.



2. (4 pts) What is the slope of the secant line from $x = 0$ to $x = 5$? Is this greater or less than the slope of the tangent at $x = 0$?

3. (bonus) On the back of this page, explain whether there exists a secant line to the curve with the same slope as the tangent line at $x = 0$.