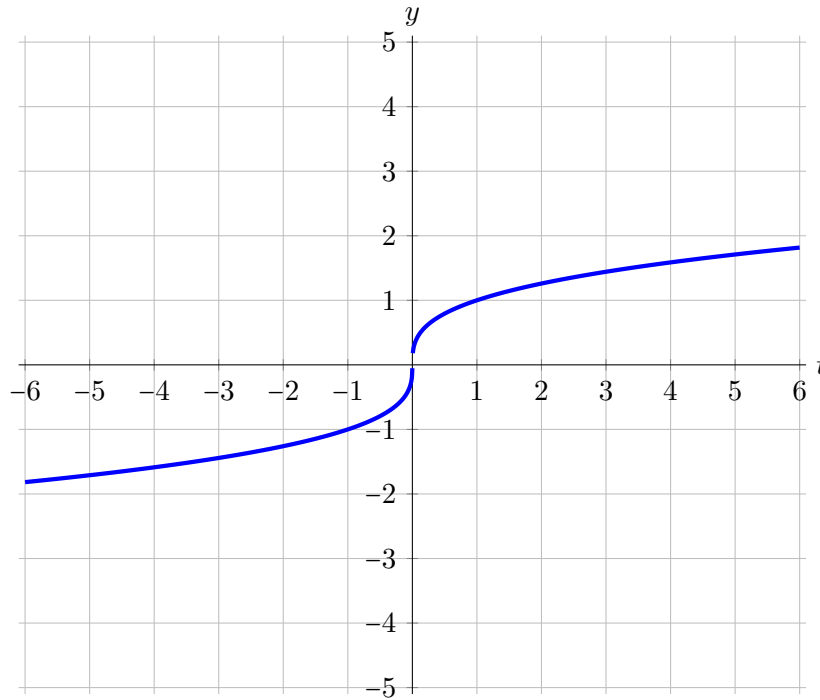


2. [6 points] For each of the following, sketch a graph of a function meeting the stated criteria, or explain why no such function exists.

*Solution:* There are many possible graphs satisfying the constraints given. Below are but two examples.

- a. [3 points] An odd, invertible function defined on the domain  $[-6, 6]$



- b. [3 points] A periodic function with period 4, amplitude 3, and midline  $y = -1$ . Include at least three periods in your sketch.

