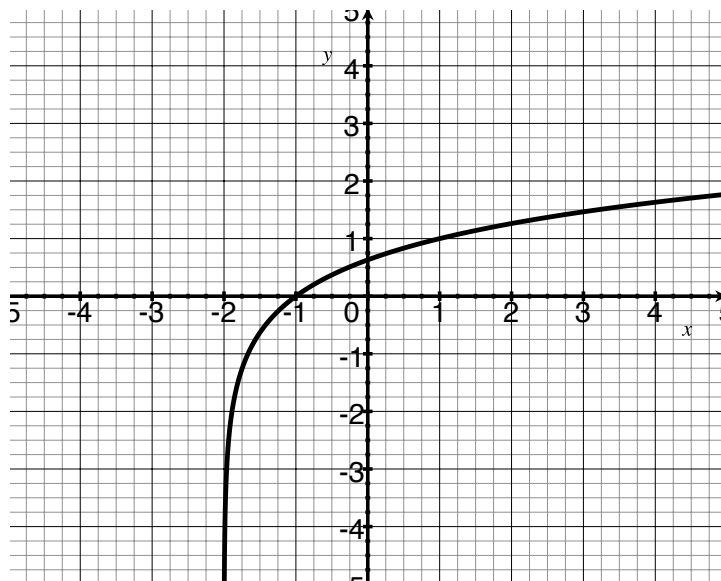# Quiz 3

Show *all* your work. Reasonable supporting work must be shown for any partial credit. There are *two* sides to this quiz.

1. The function g is a logarithmic function graphed below. The logarithmic graph has been shifted horizontally.

   (a) [2] (WebHW9 #2)
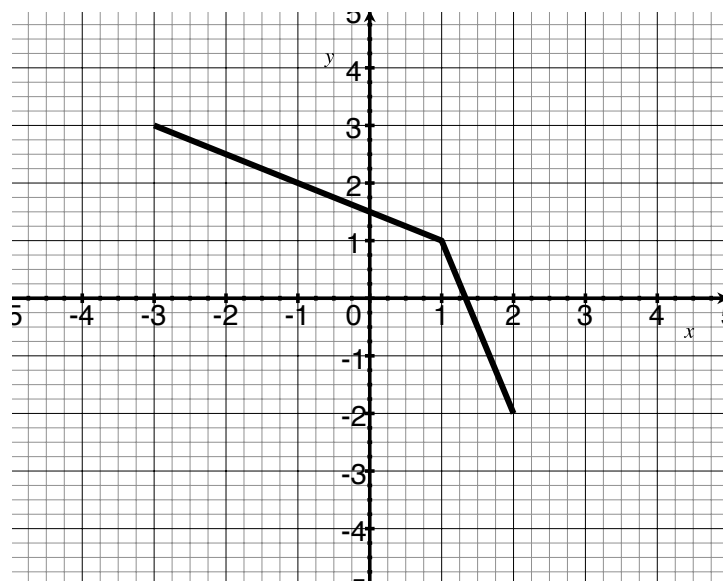   Does g have an inverse?
       Why or why not?

   (b) [2] (WebHW10 #19)
       Find the equation for g.

2. [3] (WebHW9 #22) Simplify $\dfrac{x^3\sqrt{y}}{x^{-1}y}$

3. Let f be the graph given below:

   - [1] (InverseActivity #2)
     What is the range of f.

   - [2] (§1.7 #50) Sketch
     the graph of f^{-1}.