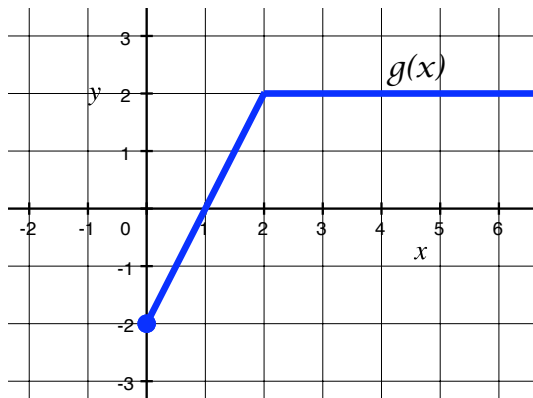


1. (2 pts.) Find the domain of the function  $y = \ln(2x + 1)$ .
2. (3 pts.) The domain of  $f(x)$  is  $1 \leq x \leq 3$ .
  - (a) What is the domain of  $2f(x - 5)$ ?
  - (b) What is the domain of  $f(-x) - 3$ ?
3. (1 pt.) Is  $h(x) = 3x^5 + x + 5$  even, odd, or neither? (Show work or give an explanation.)
4. The graph of  $g(x)$  is shown below.



- (a) (2 pts.) Sketch  $g(x + 2) - 3$
- (b) (2 pts.) Sketch  $-\frac{1}{2}g(x) + 2$

For both parts, draw your graphs as neat as possible and put a scale on your axes.

(You can put both graphs on one set of axes if you would like to.)