- **2.** [12 points] A table for the function f(x) and part of the graph of the piecewise-linear function g(x) are given below. The following are true:
 - f(x) and g(x) are both defined on $(-\infty, +\infty)$.
 - f is an odd function.
 - g is a periodic function with period 4.

x	-2	-1	0	2	3
f(x)	4	2	a	b	7



- **a**. [3 points] Find the values of a and b.
- **b.** [3 points] Find a formula for g(x) for x in [2, 4].

g(x) =______ for x in [2,4].

- c. [6 points] Compare the following values by writing one of the symbols: " < ", " > " or " = " in the blank. If the relationship cannot be determined using the information given, write "N" in the blank.
 - i. [2 points] g(f(-1)) = g(f(1))
 - ii. [2 points] g(14)_____ g(5)
 - iii. [2 points] f(g(3))_____ f(g(-3))