3. Table 1 below displays some values of an invertible function $f(x)$, while Figure 2 depicts the graph of the function $g(x)$.

Table 1

x	0	1	2	3	4	5	6
$f(x)$	2	6	5	4	1	3	7

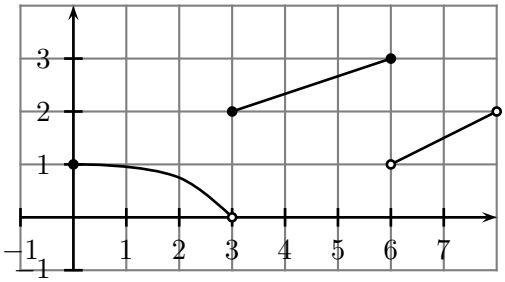

Figure 2: Graph of $g(x)$

(a) (4 points) What is the domain of g? of g^{-1}?

(b) (1 point each) Evaluate the following:

i. $g(5)$

ii. $g\big(g(6)\big)$

iii. $\lim_{x\to 3^-} g(x)$

iv. $g^{-1}\big(f^{-1}(5)\big)$

v. $f\big(f(5)\big)$

(c) (4 points) Order the following from smallest to largest: $g'(1), g'(2), g'(5), g'(6.4)$.

$$g'\Big(\underline{\quad}\Big) < g'\Big(\underline{\quad}\Big) < g'\Big(\underline{\quad}\Big) < g'\Big(\underline{\quad}\Big)$$