▼ 6.1 - Textbook Solution

▼ Part a

The rules $f(x)$ and $g(x)$ have their domains and ranges specified in Table 6.1.1, where the symbol $\Re$ denotes the set of real numbers.

Rule	Domain	Range
$f(x) = \sqrt{x+1}$	$(x \in \Re, x \geq -1)$	$(y \in \Re, y \geq 0)$
$g(x) = \dfrac{x}{x^2+1}$	$(x \in \Re)$	$(y \in \Re, -\dfrac{1}{2} \leq y \leq \dfrac{1}{2})$

Table 6.1.1   Rules $f(x)$ and $g(x)$, along with domains and ranges

The domain and range for $f(x)$ can de deduced from the properties of the square-root function, or from the graph of $f(x)$ in Figure 6.1.1(a). The domain for $g(x)$ can be deduced from its rule, but the range can only be approximated from its graph in Figure 6.1.1(b).
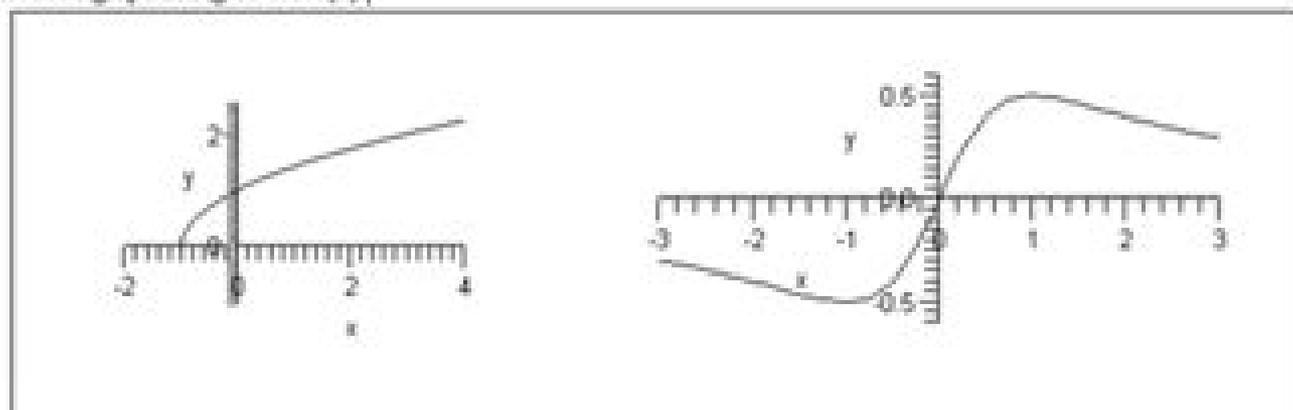

Figure 6.1.1(a)   Graph of $f(x) = \sqrt{x+1}$ **Figure 6.1.1(b)**   Graph of $g(x) = \dfrac{x}{x^2+1}$

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Roman Wölfel

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