3.1.51 Every operation here is always defined except for division; we cannot divide by zero:

$$\begin{aligned} x^2 - 16 &\neq 0; \\ x^2 &\neq 4; \\ x &\neq \pm 4. \end{aligned}$$

Therefore,

$$\operatorname{dom} g = \{x \mid x \neq -4,\ x \neq 4\}.$$

3.2.9.m While $(0, 3)$ and $(4, 3)$ are on the graph, no other point of the form $(x, 3)$ is on the graph. Therefore,

$$x = 0 \text{ or } x = 4.$$