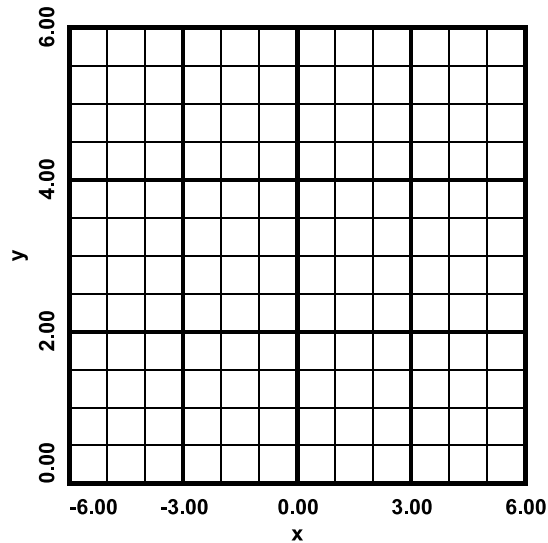


1) For $y = f(x) = -\sqrt{-x}$,

- Construct a function $y = g(x)$ which is a translation, by $(4,3)$, of $y = f(x)$.
- Graph $y = g(x)$ on the grid provided.
- State the domain and range of $y = g(x)$.



- 3) State the domain and range of $y = f(x) = -\sqrt{4x - 5} - 11$.

2) Let

$$y = f(x) = \sqrt{x} \text{ and } y = g(x) = \frac{1}{3}\sqrt{x}.$$

- Express $y = g(x)$ as a vertical compression of $y = f(x)$. Explain the compression in words.
- Express $y = g(x)$ as a horizontal stretch of $y = f(x)$. Explain the stretch in words.