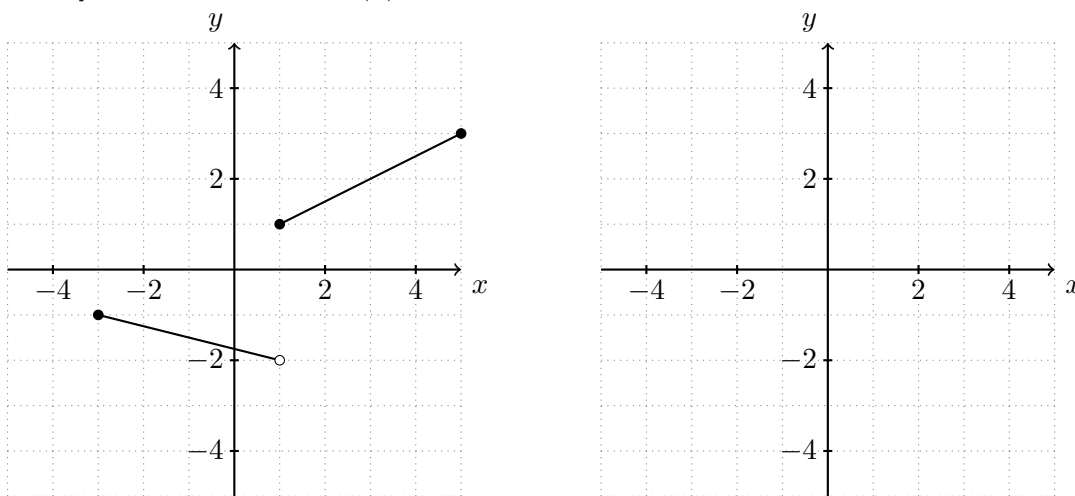


6. [11 points] The graph of $y = F(x)$ is shown below on the left.



- a. [4 points] Draw the graph of $y = F^{-1}(x)$ on the provided axes.
- b. [4 points] Write a piecewise formula for $F(x)$. (NOT for $F^{-1}(x)$)

$$F(x) = \begin{cases} \text{_____ for _____} \\ \text{_____ for _____} \end{cases}$$

c. [3 points] Let $G(w) = \sqrt{w+1}$ with domain $(0, 8)$, and let $H(w) = F(G(w))$. What is the range for $H(w)$ and $H^{-1}(y)$? Express your answers using **interval notation**.

The range for $H(w)$ is _____.

The range for $H^{-1}(y)$ is _____.