

Extra Practice: Function Notation

- a) Given: $f(x) = \sqrt{x+1}$
- Write the image equation for the transformation: $y = f(x-2)+4$
 - State the domain and range of each function.
 - Graph both functions on the same grid.
- b) Given: $f(x) = \sqrt{x} - 1$
- Write the image equation for the transformation: $y = f(x-3)+2$
 - State the domain and range of each function.
 - Graph both functions on the same grid.
- c) Given: $f(x) = \frac{1}{x+1}$
- Write the image equation for the transformation: $y = f(x+1)$
 - State the domain and range of each function.
 - Graph both functions on the same grid.
- d) Given: $f(x) = \frac{1}{x} + 2$
- Write the image equation for the transformation: $y = f(x-3)+4$
 - State the domain and range of each function.
 - Graph both functions on the same grid.