1. Determine whether the function $f = \{(1,3), (2,5), (-3,6), (4,3)\}$ is invertible. If not, remove points so that it is. In either case, write out the inverse.

2. Take f to be an invertible function with domain (4, 10] and range (-4, 3). Determine the domain and range of the inverse of f.

3. Sketch $f|_{(-3,-2)\cup[0,1]}$ where $f(x)=x^2$. Then sketch the inverse of $f|_{(-3,-2)\cup[0,1]}$ and write a formula for it.

4. Find the inverse of $f(x) = 3(x-2)^3 + 1$. Determine the domain and range of f and its inverse.

5. Find the inverse of $f(x) = \frac{x-3}{2x+4}$. Determine the domain and range of f and its inverse.

6. Find the inverse of $f(x) = \sqrt{x-2} + 1$. Determine the domain and range of f and its inverse.