

Homework #1

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1. Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be given by the rule $f(x) = x^3 - x$. By restricting the domain and range of f appropriately, obtain from f a bijective function g . Draw the graphs of g and g^{-1} (there are several possible choices for g).
2. Sundaram, #5, p. 67.
3. Sundaram, #9, p.67.
4. Sundaram, #13, p.68.
5. Sundaram, #17, p.68.