

63 (a) $f(x) = x^{4/3} \Rightarrow f(x) = \sqrt[3]{x^4}$ or $f(x) = (\sqrt[3]{x})^4$.

(b) The domain of f is all real numbers.

(c) $x^{4/3} = 10 \Rightarrow x = \pm 10^{3/4} = \pm \sqrt[4]{1000} \approx \pm 5.623$