



2019 P2 Q8

8. A function, f , is given by $f(x) = \sqrt[3]{x} + 8$.

The domain of f is $1 \leq x \leq 1000$, $x \in \mathbb{R}$.

The inverse function, f^{-1} , exists.

(a) Find $f^{-1}(x)$.

(b) State the domain of f^{-1} .

Answers

(a) $f^{-1}(x) = (x - 8)^3$

(b) $9 \leq x \leq 18$, $x \in \mathbb{R}$