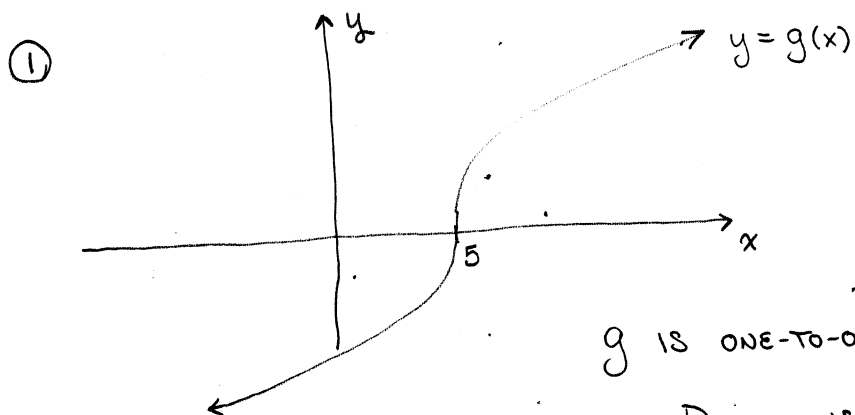


- Find the inverse of $g(x) = \sqrt[3]{x-5}$.



g IS ONE-TO-ONE.

DOMAIN IS $(-\infty, \infty)$

RANGE IS $(-\infty, \infty)$

② $y = \sqrt[3]{x-5}$ SOLVE FOR x ...

$$y^3 = x - 5$$

$$y^3 + 5 = x$$

③ $y^3 + 5 = x$ INTERCHANGE x & y

$$x^3 + 5 = y$$

$$g^{-1}(x) = x^3 + 5$$

④ RANGE OF g IS $(-\infty, \infty)$. SO DOMAIN OF g^{-1} IS $(-\infty, \infty)$.