

§ 2.4.1

問題A

$$\square (1) (a) y = \sqrt[3]{x} = x^{\frac{1}{3}} \quad y' = \frac{1}{3} x^{-\frac{2}{3}}$$

$$(b) y^3 = x \text{ 対し } \frac{dy}{dx} = \frac{1}{dx/dy} = \frac{1}{3y^2} = \frac{1}{3(\sqrt[3]{x})^2}$$

$$(2) (a) y = \sqrt{x+1} \quad y' = \frac{1}{2} (x+1)^{-\frac{1}{2}} = \frac{1}{2\sqrt{x+1}}$$

$$(b) y^2 = x+1 \text{ 対し } \frac{dy}{dx} = \frac{1}{\frac{dx}{dy}} = \frac{1}{2y} = \frac{1}{2\sqrt{x+1}}$$