

問 4.8 次の関数を微分せよ。

(1) $y = \text{Sin}^{-1}3x$

(2) $y = \text{Cos}^{-1}\frac{x}{3}$

(3) $y = \text{Tan}^{-1}\frac{x}{3}$

問 4.9 次の関数を微分せよ。

(1) $y = (2x+3)^4$

(2) $y = (x^2 - x + 1)^3$

(3) $y = \frac{1}{\cos x}$

(4) $y = \sqrt{1-x^2}$

(5) $y = \log(x^2 - x + 1)$

(6) $y = e^{x^2-x+1}$

(7) $y = \cos(2x+3)$

(8) $y = \tan(2x+3)$

(9) $y = e^{2x} \cos 3x$

(10) $y = \frac{e^{2x}}{\sin 3x}$

(11) $y = \{\log(2x+3)\}^6$

(12) $y = \cos^5 2x$