

5. 次の関数を微分せよ。

(1) $y = (x^3 + 7x^2 + x)^5$

答 . _____

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

答 . _____

(3) $y = \sin(e^x + x^5)$

答 . _____

(4) $y = \log(x^7 + 3)$

答 . _____

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

答 . _____

(6) $y = 5^x$

答 . _____

(7) $y = x^{3x}$

答 . _____