

組 番 氏名 ふりがな _____

1. 次の関数を微分せよ。

(1) $y = \log(x^5 + 3)$

答 . _____

(2) $y = \log\left(\frac{1}{x+1}\right)$

答 . _____

(3) $y = \log_3(x^2 + 1)$

答 . _____

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

答 . _____

(5) $y = \log(\cos x)$

答 . _____

(6) $y = x^7 \log x$

答 . _____

$$(7) y = \log_3 2x$$

答 . _____

$$(8) y = \log \sqrt{x^2 + 1}$$

答 . _____

$$(9) y = x^{\sqrt{x}}$$

答 . _____

$$(10) y = (\sin x)^x$$

答 . _____

$$(11) y = \text{Sin}^{-1}(x^2 + 2x - 3)$$

答 . _____

$$(12) y = \text{Tan}^{-1}\left(\frac{3x}{x+4}\right)$$

答 . _____