

組 番 氏 名 ふりがな \_\_\_\_\_

1. 次の関数を微分せよ。

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

答 . \_\_\_\_\_

(2)  $y = \cos(x^3 - x)$

答 . \_\_\_\_\_

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

答 . \_\_\_\_\_

(4)  $y = \sqrt{3} \cos x + \sin x$

答 . \_\_\_\_\_

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

答 . \_\_\_\_\_

(6)  $y = 3^x$

答 . \_\_\_\_\_

(7)  $y = \text{Sin}^{-1}(5x - 2)$

答 . \_\_\_\_\_

$$(8) y = \text{Cos}^{-1}\left(x^3 + \frac{1}{x}\right)$$

答. \_\_\_\_\_

$$(9) y = \text{Tan}^{-1}\left(\frac{1}{x+1}\right)$$

答. \_\_\_\_\_

$$(10) y = \text{Sin}^{-1}x \times \text{Tan}^{-1}x$$

答. \_\_\_\_\_

$$(11) y = e^x \text{Tan}^{-1}x$$

答. \_\_\_\_\_