

数学 練習問題 6/15

組 番 氏 名 _____

1. 次の関数を微分せよ。

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

答 . _____

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

答 . _____

(3) $y = \tan(3x + 1)$

答 . _____

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

答 . _____

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

答 . _____

(6) $y = 7^x$

答 . _____

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

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. _____