組　　番 氏 <sup>ふり</sup><sup>がな</sup>名_____

**1.** 次の関数を微分せよ。

（1）$y = \mathrm{Sin}^{-1}(2x+1)$

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

答. _____

（2）$y = \mathrm{Cos}^{-1}\left(x^2 - 1\right)$

答. _____

(5) $y = 3^x$

答. _____

（3）$y = \mathrm{Tan}^{-1}\left(x+1\right)$

答. _____

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

答. _____

答. _____

(7) $y = 5^{3x-1}$

答. _____

(8) $y = \log(x^2 + 3)$

答. _____

(9) $y = \log_{10}(x^2 + 1)$

答. _____

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

答. _____

(11) $y = x^{3x} \quad (x > 0)$

答. _____

(12) $y = 2(\sqrt{x}\,)^x$

答. _____