

数Ⅲ (対数関数の導関数①)

$$\textcircled{ホ} (\log x)' = \textcircled{①} \underline{\hspace{2cm}}, (\log_a x)' = \textcircled{②} \underline{\hspace{2cm}}, (\log|x|)' = \textcircled{③} \underline{\hspace{2cm}}, (\log_a|x|)' = \textcircled{④} \underline{\hspace{2cm}}$$

② 次の関数を微分せよ。

$$\textcircled{⑤} y = \log_6 x$$

$$\textcircled{⑥} y = \log(3x^2 + 1)$$

$$\textcircled{⑦} y = x \log 2x$$

$$\textcircled{⑧} y = \log_{10}(1 - 2x)$$

$$\textcircled{⑨} y = \log|x^2 - 1|$$

$$\textcircled{⑩} y = \log_3|x + 5|$$