

数Ⅲ(関数の極限⑤・指数関数)

〇 次の極限を求めよ。

$$\textcircled{1} \lim_{x \rightarrow \infty} (\sqrt{2})^x$$

$$\textcircled{2} \lim_{x \rightarrow \infty} \left(\frac{1}{3}\right)^x$$

$$\textcircled{3} \lim_{x \rightarrow -\infty} 2^{-x}$$

$$\textcircled{4} \lim_{x \rightarrow \infty} \frac{5^x - 7^x}{2^x + 7^x}$$

$$\textcircled{5} \lim_{x \rightarrow \infty} (2^x - 3^x)$$

$$\textcircled{6} \lim_{x \rightarrow \infty} (3^x - 2^{2x+1})$$