演習　定積分_第 04 回

学年[2]年　学科[MI・AC・BC]　番号[　　]　氏名　[　　]

問 10.1　次の定積分を計算せよ。

(1) $\int_{-1}^{2} x^4 \, dx$

(2) $\int_{1}^{4} \sqrt{x} \, dx$

(3) $\int_{1}^{4} \dfrac{1}{\sqrt{x}} \, dx$

(4) $\int_{1}^{e} \dfrac{1}{x} \, dx$

(5) $\int_{0}^{1} e^{2x} \, dx$

(6) $\int_{\frac{\pi}{6}}^{\frac{\pi}{4}} \cos 2x \, dx$

(7) $\int_{0}^{\frac{\pi}{3}} \dfrac{1}{\cos^2 x} \, dx$

(8) $\int_{0}^{2} \dfrac{1}{x^2+4} \, dx$

(9) $\int_{0}^{2} \dfrac{x}{x^2+4} \, dx$