積分の計算 1　　　クラス・番号：＿＿＿＿＿＿　氏名：＿＿＿＿＿＿＿＿＿＿＿＿

積分を求めよ

(1)　$\displaystyle\int (3x+5)^9\,dx$

答 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

(2)　$\displaystyle\int \sqrt[3]{(6x+1)^5}\,dx$

答 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

(3)　$\displaystyle\int e^{2x+1}\,dx \quad (t=2x+1)$

答 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

(4)　$\displaystyle\int x(3x^2+1)^3\,dx$

答 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

(5)　$\displaystyle\int \frac{x+2}{(x-1)^3}\,dx \quad (t=x-1)$

答 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿

(6) $\displaystyle\int \sin^5 x \cos x \, dx$

答 _____

(7) $\displaystyle\int \cos^4 x \sin x \, dx$

答 _____

(8) $\displaystyle\int \sin^3 x \, dx$

答 _____

(9) $\displaystyle\int \frac{x}{x^2 + 1} \, dx$

答 _____

(10) $\displaystyle\int \frac{x^5 + x^2}{x^6 + 2x^3 + 1} \, dx$

答 _____