

積分を求めよ. 途中の式も書くこと.

組 番 ふりがな 氏 名 \_\_\_\_\_

(1)  $\int x \cos 2x \, dx$

答 \_\_\_\_\_

(2)  $\int \frac{1}{(x+1)(2x+3)} \, dx$

答 \_\_\_\_\_

(3)  $\int \frac{x^3}{x-1} \, dx$  割り算

答 \_\_\_\_\_

(4)  $\int \frac{-x+1}{(x+2)^2} \, dx$

答 \_\_\_\_\_

(5)  $\int \frac{dx}{\sqrt{x+1} + \sqrt{x-1}}$

答 \_\_\_\_\_

(6)  $\int x e^{2x} dx$

答 \_\_\_\_\_

(7)  $\int \sin x \cos 2x dx$

答 \_\_\_\_\_

(8)  $\int \frac{x}{\sqrt{x+1}} dx$

答 \_\_\_\_\_