$$T(1) \int_{0}^{1} (1+t^{2})^{4} t = \frac{1}{2} \int_{0}^{1} (1+t^{2})^{4} dt$$

$$= \frac{1}{2} \int_{1}^{2} x^{4} dt$$

$$= \frac{1}{2} \int_{1}^{2} x^{5} \int_{1}^{2} = \frac{1}{10} (32-1) = \frac{31}{10}$$

$$(2) \int_{0}^{1} (1-t)^{6} dt = -\int_{0}^{1} (1-t)^{6} (1-t)^{4} dt$$

$$= -\int_{1}^{2} x^{6} dx$$

$$= -\int_{1}^{$$

$$= \left[ \frac{t^6}{6} - \frac{t^7}{7} \right]^{1} = \frac{1}{6} - \frac{1}{7} = \frac{1}{42}$$

 $2x+1 = t + t + 3 + 5 = 3 = 3 + 1 = \frac{121}{2}$   $2x+1 = \frac{121}{2}$   $2x+1 = \frac{121}{2}$ 

$$I = \begin{cases} 3 & t + \frac{1}{2} & 4t = \frac{1}{2} & \left( \frac{1}{2} & t^{\epsilon} \right) \right]_{3}^{3} = \frac{1}{10} \left( 3^{5} - 1 \right) = \frac{242}{10}$$

(5) 
$$\int_{0}^{1} \frac{t}{(1+t^{2})^{2}} dt = \frac{1}{2} \int_{0}^{1} \frac{(1+t^{2})^{2}}{(1+t^{2})^{2}} dt$$
$$= \frac{1}{2} \int_{1}^{2} \frac{1}{x^{2}} dx = \frac{1}{2} \left[ -\frac{1}{x} \right]_{1}^{2} = \frac{1}{4}$$

$$\mathcal{I}$$

より

$$\frac{(x+5A)_3}{2} = \frac{(x+5A)_3}{1} = \frac{(x+5A)_3}{2}$$

$$9'(0) = \frac{1}{2^3} \begin{vmatrix} 0 & 1 & 2 \\ 1 & 2 & 1 \\ 2 & 1 & 2 \end{vmatrix}$$

3++= s+x (-5)

$$\frac{d_{1}(x) = -\frac{5x + \delta(x)}{6(x)} = 0$$

の 2"26 2" 日代15 すると

 $2 + \varphi'(x) + x \varphi'(x) + \varphi'(x) + 2(\varphi'(x))$   $+ 2 \varphi(x) \varphi'(x) = 0$ 

 $f'(x) = \frac{2+2f'(x)+2(f'(x))^2}{2+2f'(x)}$ 

ことがいるも 美にこらか、ふ、まる