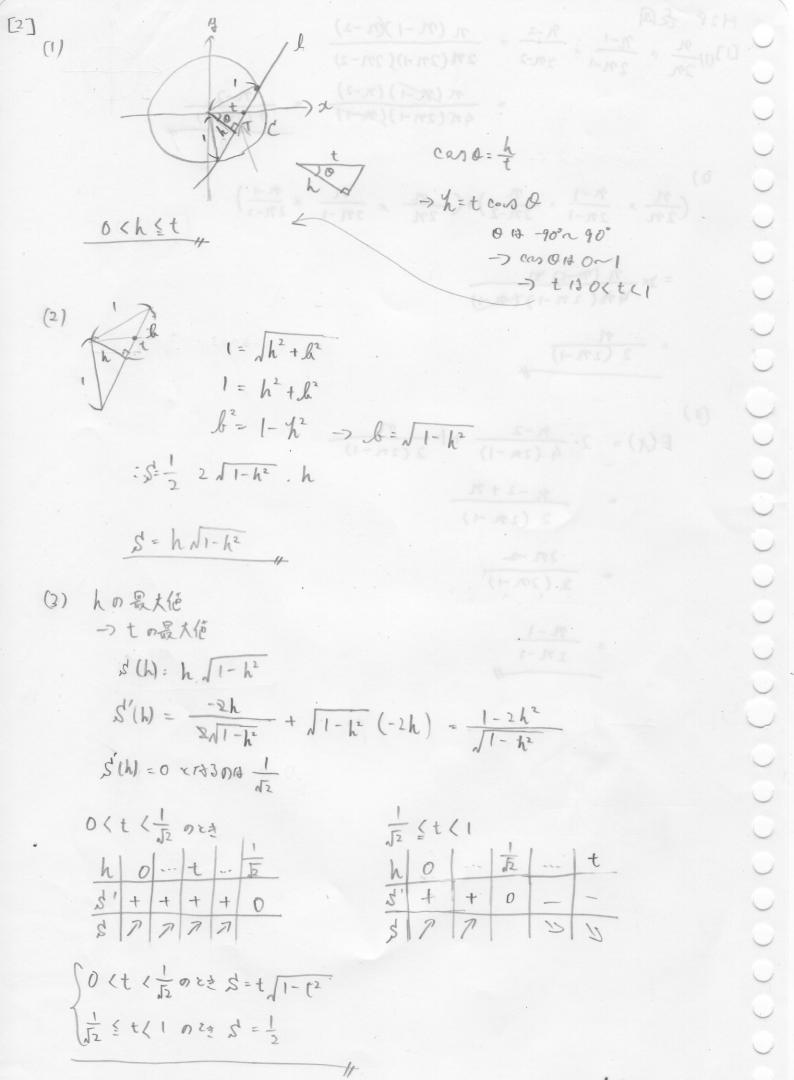
$$\begin{array}{c} \text{Hilb field} \\ \text{(i)}_{(1)} \frac{n}{2n} \times \frac{n-1}{2n-1} \times \frac{n-2}{2n-2} & \frac{n(n-1)(n-2)}{2n(2n+1)(2n-2)} \\ & = \frac{n(n-1)(n-2)}{4n(2n+1)(2n-1)} & \frac{n-2}{4(2n-1)} \\ \text{(2)} \\ \text{(2)} \\ \text{(2)} \\ \text{(2)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(3)} \\ \text{(4)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(4)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(4)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(4)} \\ \text{(2)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(3)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(3)} \\ \text{(3)} \\ \text{(2)} \\ \text{(3)} \\ \text{(2)} \\ \text{(3)} \\ \text{(3)} \\ \text{(2)} \\ \text{(3)} \\ \text{(3)} \\ \text{(4)} \\ \text{(4)} \\ \text{(4)} \\ \text{(5)} \\ \text{(5)} \\ \text{(5)} \\ \text{(6)} \\$$

$$E(x) = 2 \cdot \frac{n-2}{4(2n-1)} + 1 \cdot \frac{n}{2(2n-1)}$$

$$= \frac{n-2+n}{2(2n-1)}$$

$$= \frac{2n-2}{2(2n-1)}$$



$$\begin{cases} 0 < t < \frac{1}{52} = t < 1 - t^2 \\ \frac{1}{52} \leq t < 1 = t < 1 - t^2 \end{cases}$$

[3] 
$$x^2 \frac{d^2y}{dx^2} + 4x \frac{dy}{dx} + 2y = 0$$

(1) 
$$\frac{dy}{dt} = \frac{\frac{dy}{dx}}{\frac{dx}{dx}} = \frac{\frac{dy}{dx}}{\frac{dx}{dx}} \cdot \frac{\frac{dx}{dx}}{\frac{dx}{dx}}$$

$$\frac{dx}{dt} = (e^t)' = e^t = x$$

$$\frac{dy}{dx} = x \frac{dy}{dx}$$

(2) 
$$\frac{d^2y}{dt^2} = \frac{d}{dt} \left( \frac{dy}{dt} \right)$$

$$= \frac{d}{dt} \left( x \cdot \frac{dy}{dx} \right)$$

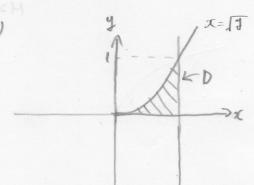
$$= \frac{dx}{dt} \cdot \frac{dy}{dx} + x \cdot \frac{d}{dt} \left( \frac{dy}{dx} \right)$$

$$= \frac{dy}{dt} + \times \frac{d}{dx} \left( \frac{dy}{dt} \right)$$

$$= \chi \frac{ds}{dx} + \chi \frac{d}{dx} \left( x \frac{ds}{dx} \right)$$

$$= \chi^2 \frac{d^2 y}{d \chi^2} + \chi c \frac{d y}{d \chi}$$

(3) 
$$\frac{d^2y}{dt^2} - x \frac{dy}{dx} + 4 \frac{dy}{dt} + 2y = 0$$



$$\chi = \sqrt{3} \rightarrow 3 = 30^{2}$$

$$(2) f(x) = \chi^2$$

(3) 
$$V = \int_{0}^{1} \left\{ \int_{0}^{x^{2}} \sqrt{1+x^{3}} dy \right\} dx$$
$$= \int_{0}^{1} \left[ \int_{0}^{x^{2}} \sqrt{1+x^{3}} \right]_{0}^{x^{2}} dx$$
$$= \int_{0}^{1} x^{2} \sqrt{1+x^{3}} dx$$

$$\frac{dt}{dx} = 3x^2 \rightarrow dx = \frac{dt}{3x^2}$$

$$V = \int_{1}^{2} x^{2} \int_{1}^{2} t dt \cdot \frac{1}{3x^{2}} dt$$

$$= \frac{1}{3} \int_{1}^{2} \int_{1}^{2} t dt$$

$$=\frac{1}{3}\cdot\frac{2}{3}\left[t^{\frac{2}{2}}\right]^{2}$$

$$=\frac{2}{9}\left(\sqrt{2^3}-1\right)$$

$$=\frac{2}{9}(2\sqrt{2}-1)$$

(対策: か、か) なか (本、) - 9.5・9.5・