南 次の領域を国示せよ

(1)
$$D = \{ 0 \le x \le 1, x^2 \le \lambda \le \sqrt{\kappa} \}$$

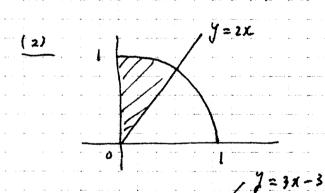
(2)
$$D = \{ y \ge 2x, x^2 + y^4 \le 1, x \ge 0 \}$$

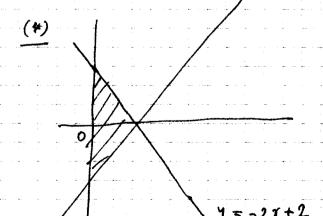
(3)
$$D = \{ \chi^2 \leq \chi \leq \chi + z \}$$

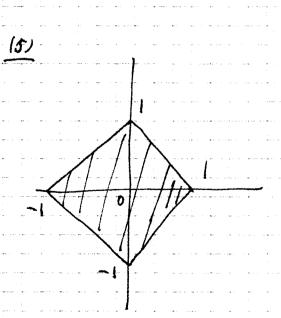
$$(4) D = \{ x \ge 0, 3x - 3 \le x \le -2x + 2 \}$$

查 (1)

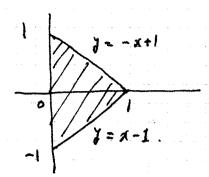
-2







$$\frac{151}{D} \int \int x^2 y \, dx \, dy , D = \left\{ 0 \le x \le 1, x - 1 \le y \le -x + 1 \right\}$$



管 4, 11 0 m页12 果次种分.

$$\iint_{D} x^{2}y \, dxdy = \iint_{0}^{-2+1} x^{2}y \, dy \, dx$$

$$= \int_0^1 \left[\frac{x^2 x^2}{2} \right]_{x-1}^{-x+1} dx$$

$$= \int_{0}^{1} \frac{\chi^{2}(-\chi+1)^{2}}{2} - \frac{\chi^{2}(\chi-1)}{2} d\chi = 0.$$