7. **2p.** Zmienna (X,Y) ma rozkład o gęstości f(x,y)=xy, na obszarze $[0,2]\times[0,1]$. Wyznaczyć dystrybuantę tej zmiennej, czyli obliczyć $F_{XY}(s,t)=\int_{-\infty}^s \int_{-\infty}^t xy\,dy\,dx$.

Sprody by
$$\int_{0}^{2} \int_{x}^{1} xy \, dy \, dx = \int_{0}^{2}$$
.

$$\int_{0}^{2} xy \, dy \, dx = \int_{0}^{2} \left[-\frac{xy^{2}}{2} \right]_{0}^{1} dx = \int_{0}^{2} \frac{x}{2} \, dx = \left[-\frac{x}{4} \right]_{0}^{2} = \frac{h}{h} = 1$$

1° Jest $S \in (-\infty, 0)$ lub $t \in (-\infty, 0)$, $S \in (-\infty, 0)$ Les $S \in (-\infty, 0)$ Les $S \in (-\infty, 0)$.

2° Jesli $\delta \in [2, +\infty)$; $t \in [1, +\infty)$, teoly $f_{xy}(s,t) = 1$

$$3^{\circ}$$
 $s \in [0, 25]$ $i \in [1, +\infty)$, $s \in [1, +\infty)$,

$$= \int_{0}^{1} \frac{s^{2}y}{z} = \left[\int_{0}^{2} \frac{y^{2}}{4^{2}} \int_{0}^{1} - \frac{s^{2}}{4} \right]$$

, theory
$$f \times y(s, t) = \int_{0}^{t} \int_{0}^{2} \times y ds dy = \int_{0}^{t} \int_{0}^{2} \sum_{z}^{2} \int_{0}^{z} d\bar{y} \int_{0}^{z} 2y dy =$$

$$= \int_{0}^{t} \int_{0}^{2} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{2} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} 2y dy = \int_{0}^{t} \int_{0}^{t} y^{2} \int_{0}^{t} d\bar{y} \int_{0}^{t} y^{2} \int_{0}^{t} y^{2}$$

$$5^{\circ} 8 \ \text{Eto}, 2J : \text{Heto}, 1J, \text{ thedy} \quad F_{xy}(s,t) = \int_{0}^{+} \int_{0}^{x} xy \, dx \, dy = \int_{0}^{1} \left[\sum_{z=1}^{2} y \right]_{0}^{s} \, dy = \int_{0}^{2} \left[$$