5-1.4. ZAMJENA VARIJABLI

Matan 1:
$$\int_{a}^{b} f(x)dx = \left| \begin{array}{c} x = \varphi(t) \\ dx = \varphi'(t)dt \end{array} \right| = \int_{a}^{b} f(\varphi(t)) (\varphi'(t)) dt$$

Sho is 3 2Dint?

$$\iint_D f(x,y) dx dy = \begin{vmatrix} x = x(u,v) \\ y = y(u,v) \end{vmatrix} = \iint_D g(u,v) \frac{\partial f(x)}{\partial x} du dv \quad \text{for is time } f(x,y) dx dy$$

Prisjetime se Jacobjeve moutrice:
$$J = \frac{3(x,y)}{3(u,v)} = \begin{bmatrix} \frac{3x}{3u} & \frac{3x}{2v} \\ \frac{3u}{3u} & \frac{3y}{3v} \end{bmatrix}$$

$$D1R - 2020 - 4) \qquad 3x + y = 3$$

$$3x + y = 9$$

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$$3x - y = 3$$

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$$\iint_{P} \frac{(u(3 \times 4y)^{u})}{(3 \times 4y)(3 \times 4y)} dxdy$$

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