f(x,y) = x2y2 lu(x2+5y2)  $f' = 2 \times y^{2} ln (x^{2} + 5y^{2}) + \frac{x^{2}y^{2} \cdot 2x}{x^{2} + 5y^{2}}$ f = 2yx 2M(x25y2)+ x2y2.2310y  $\begin{cases} f = 2y \times W1(x + y) \\ y = 0 \end{cases} \begin{cases} 2xy^{2}ln(x^{2}+5y^{2}) + 2x^{3}y^{2} \\ x^{2}+5y^{2} \end{cases}$   $\begin{cases} f' = 0 \\ f' = 0 \end{cases} \begin{cases} 2xy^{2}ln(x^{2}+5y^{2}) + 2x^{3}y^{2} \\ x^{2}+5y^{2} \end{cases}$   $\begin{cases} 2yx^{2}ln(x^{2}+5y^{2}) + 10y^{3}x^{2} = 0 \\ x^{2}+5y^{2} \end{cases}$ Kategugamb!: 6(0,0) ple ont. viet, Freise F=(t,0), t+0

$$\int_{XX}^{11} = 2y^{2} \ln(X^{2} + 5y^{2}) + \frac{2y^{2}(3x^{4} + 25y^{2}x^{2})}{(x^{2} + 5y^{2})^{2}}$$

$$\int_{XY}^{11} = 2x^{2} \ln(X^{2} + 5y^{2}) + \frac{50x^{2}(3y^{4} + x^{2}y^{2})}{(x^{2} + 5y^{2})^{2}}$$

$$\int_{XY}^{11} = 4xy \ln(X^{2} + 5y^{2}) + \frac{50x^{2}(3y^{4} + x^{2}y^{2})}{(x^{2} + 5y^{2})^{2}}$$

$$\int_{XY}^{11} = 4xy \ln(X^{2} + 5y^{2}) + \frac{20xy^{3}}{5y^{2} + x^{2}} + \frac{2x^{3}(2y(5y^{2} + x^{3})^{2})}{(x^{2} + 5y^{2})^{2}}$$

$$= 4xy \ln(X^{2} + 5y^{2}) + \frac{20xy^{3}}{25y^{2} + x^{2}y^{3}}$$

$$= 4xy \ln(X^{2} + 5y^{2}) + \frac{25y^{2} + 5x^{2}y^{3} + x^{4}y^{3}}{25y^{2} + x^{4}y^{3}}$$

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$$= 2xy \ln(X^{2} + 5y^{2}) + \frac{20xy^{3} + 2x^{2} +$$

A(C) = 
$$(\sqrt{10})^{\frac{3}{2}} + \sqrt{10} + \sqrt$$

= > f(x,y) Momen Elevers (0)

manue x uy, ruo x²+5y² < 1=> ln(x²+5y²)

manue x uy, ruo x uy, ruo x²+5y² < 1=> ln(x²+5y²)

manue x uy, ruo x uy,