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Finding
$$A^{-1}$$

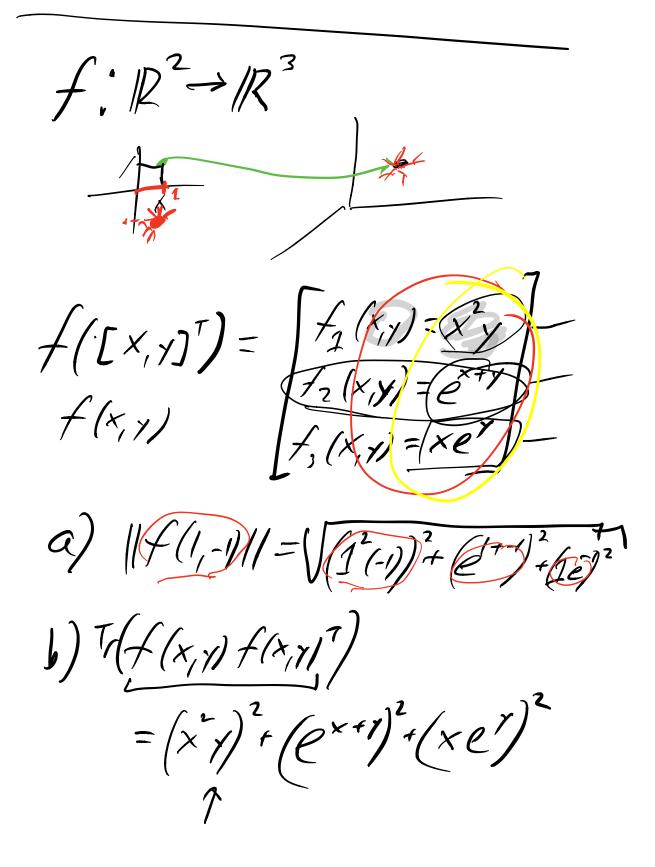
$$A^{-1}A = I$$

$$AA^{-1} = I$$

$$A = I$$

 $\frac{e^{2}}{2} = \frac{1}{2} \frac{1}{2$ P3 = 107

20 $i = e_i$ $LUx = e_2$ $LUy = e_3$ $A = \begin{bmatrix} 1 \\ 1 \end{bmatrix} \\ LUx = e_3$



$$C) Df = \begin{bmatrix} -\sqrt{1} \\ -\sqrt{1} \\ -\sqrt{1} \end{bmatrix}$$

$$= \begin{bmatrix} 2xy \\ e^{x+y} \end{bmatrix}$$

$$= \begin{bmatrix} 2x$$

A) Rack (D) answer no. Rock ≤ 2 C) $g(x)=2x^2y+3e^{x+x}-xe^{x}$ $=u^{T}f(x,y)$ $u=\begin{bmatrix} 2\\ 3\\ 1 \end{bmatrix}$

 $f: \mathbb{R}^n \to \mathbb{R}^m$ and linear

ie. $f(x) = \frac{1}{x} (x + x_2 y) = \frac{1}{x} (x + x_2 y)$

Then IA

