MAT 125 Practice Lecture 10 am (to allow for people having difficulty joining). (0:10 av Remote Learning Transition * All lectures will be on zoom at scheduled tom te l'élevrise for OH. * Homework as before * Exam will be given outine submitted electronically. Most likely same time as schedaled. Asking questions in Lecture. * Highley encourage bevering on comerce and ric

* Click "Raise hand" * Wait for one to vnoubre. Type (say question. All voles and recordings will be uploaded, so I recommend not taking defailed notes. Example Use implicit differentiation find det if $y^2 + 2x^3 = 4y - 5x^2$ Solution Take de of both sides:

2y dy + 6x2 = 4 dy -(O) Solve for det. (2y-4) des des 0× There fore des des $= \frac{-(0x-6x^2)}{2y-4}$ Check that you can access recording. Exanyplee $2 \times \cdot y(x)$ Jevi = X Find dy dx fregra product .

Take de of both sides. $\left(\frac{d}{dx} \right) = 2x \left(\frac{dy}{dx} \right) = 2x$ => Zy + Zx day Solve for det Tt dy dx 2x2~ We used the product rule: if f(x) and g(x) are functions, $\frac{d}{dx} = f(x) \cdot e_y(x) = \left(\frac{d}{dx}f(x)\right) \cdot g(x) + f(x)\frac{d}{dx}g(x).$