Piw: ex-32-2xy-y=0 => diz= b-ex 1.1): 2 6 シダルスナダニムタナダダラ鉄ニジールス (2). HLMX= (3): <u>X+ H.\$</u> -女ナダ)/(1+な) = (-リナ×·り)/(xをかり 3) db = x- $2 = \frac{y}{u} \Rightarrow \frac{dy}{dx} = \frac{a^2}{(x+y)^2} \frac{dy}{dx^2} = \frac{-2a^2(1+\frac{a^2}{(x+y)^2})}{(x+y)^2} = \frac{-2a^2(1+y)^2+4^2}{(x+y)^2}$ 14): 1+ C 1+ \$ 3 dx = 2 - 22 / 86643) (5). \(\frac{1}{2} - \frac{\chi}{z^2} \). \(\ddot{d}\) -x.d3 zv dz=  $= \frac{-x}{y + xy} \Rightarrow \frac{d^3}{dy} = \frac{z}{y + x + b}$  $xy\frac{\partial^2}{\partial x} \Rightarrow \frac{\partial^2}{\partial x} = \frac{e^3 - xy}{4x} \Rightarrow \frac{\partial^2}{\partial x} = \frac{e^3 v^2 + y^2}{(e^3 - xy)^3}$ (b). 3x. e3 = y.  $y.\frac{23}{39} = \frac{32}{39} = \frac{x3}{63-x2} = \frac{32}{3x39} = \frac{(1-3)x32e^2 + 2e^3(e^2-x3)}{(e^2-x3)^3}$  $= \frac{3}{x}) + \frac{3}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -\frac{1}{5} = 0 \Rightarrow \frac{23}{5x} = -$ 33.63 = X crol: fiftet 20 2) 28 = - \$7 th 去+CH3 fit (1+32)ti=0 =) == - ti - ti+tin Jut Int 32) (1+33) f3 =0 =) 323 = - tr - 52; (+1+5v)

4. 5x = (1+ g. ) 1+(-12+ 23) /2 =0 )P1+(1+ = 28)P2=0 39 = (-gr& + 3 2x = x2/2-10 23 = 32:41-PL \$\frac{9}{7} + \frac{1}{5}\frac{9}{5}\frac{1}{5} Jef tx が、 サラリーサル = ヌースサ x 2x + y 23 = # X2x + y28 = 2

5 13) 2x = (N+3x. fit sixfz  $\frac{3x}{3y} = \left(\frac{3x}{3y} - 1\right)$ + 2V4 = 8 92

12 + 233. tz

$$\frac{\partial u}{\partial x} = \frac{u \cdot d \cdot - g \cdot f}{u \cdot d \cdot u \cdot d \cdot u \cdot - u \cdot d \cdot u} \quad \text{i.t.}$$

$$\frac{\partial u}{\partial x} = \frac{u \cdot d \cdot d \cdot u}{u \cdot d \cdot u} = \frac{u \cdot d \cdot u}{u \cdot d \cdot u} = \frac{u \cdot d \cdot u}{u \cdot d \cdot u} = \frac{u \cdot d \cdot u}{u \cdot d \cdot u} = \frac{u \cdot d \cdot u}{u \cdot d \cdot u} = \frac{u \cdot d \cdot u}{u \cdot d \cdot u} = \frac{u \cdot d \cdot u}{u \cdot d \cdot u} = \frac{u \cdot d \cdot u}{u \cdot d \cdot u} = \frac{u \cdot d \cdot u}{u \cdot u} = \frac{u \cdot d \cdot u}{u} = \frac{u \cdot u}{u} = \frac{u \cdot d \cdot u}{u} = \frac{u \cdot d \cdot u}{u} = \frac{u \cdot u}{u} = \frac{u \cdot d \cdot u}{u} = \frac{u \cdot u}{u} =$$

7. 
$$\frac{37}{38} = (1 - \frac{26}{38}) 7$$
,  $\frac{26}{39} = (\frac{26}{38} \cdot 3 + x) 6_1 + \frac{26}{3} \cdot 3 + x 6_1 + x$ 

$$g. \frac{\partial d}{\partial r} = \frac{\partial f}{\partial x} \cdot \frac{\partial x}{\partial r} + \frac{\partial f}{\partial y} \cdot \frac{\partial f}{\partial r} - \frac{\partial f}{\partial x} \cdot \frac{\partial x}{\partial r} + \frac{\partial f}{\partial y} \cdot \frac{\partial f}{\partial r} - \frac{\partial f}{\partial x} \cdot \frac{\partial f}{\partial r} + \frac{\partial f}{\partial y} \cdot \frac{\partial f}{\partial r} - \frac{\partial f}{\partial y} \cdot \frac{\partial f}{\partial r} + \frac{\partial f}{\partial y}$$

$$= \cos^2 \frac{1}{2x^2} + 25in\theta \qquad \frac{1}{2xy} + 5in^2 \theta \frac{1}{2y^2}$$

$$= -r \sin \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2} \right) + r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2y} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x^2} \cdot \frac{1}{2} \right) - r \cos \theta \left( \frac{1}{2x$$

$$\frac{\partial^{2} z}{\partial x} = \frac{\partial^{2} z}{\partial u} \frac{\partial u}{\partial x} + \frac{\partial^{2} z}{\partial u} \frac{\partial u}{\partial x} = \frac{\partial^{2} z}{\partial u} \frac{\partial u}{\partial x} + \frac{\partial^{2} z}{\partial u} \frac{\partial u}{\partial u} + \frac{\partial^{2} z}{\partial u}$$

$$= 2i \cdot y^{-\frac{3}{2}} \left( \frac{12}{24i} - \frac{12}{24i} \right) + \left( \frac{12}{24i} - \frac{12}{24i} + \frac{12}{24i} \right)$$

$$= \frac{12}{24i} + \frac{12}{24i} + \frac{12}{24i} - \frac{1}{24i} - \frac{1}{24i} - \frac{12}{24i} - \frac{12}{24i} + \frac{12}{24i} + \frac{12}{24i} - \frac{12}{24i} + \frac{12}{24i} + \frac{12}{24i} - \frac{12}{24i} + \frac{12}{24i} - \frac{12}{24i} + \frac{12}{24i}$$

$$\frac{3x}{3x} = \frac{3}{3} \cdot \frac{3x}{3x} - \frac{3}{3} = \frac{3x}{3} = \frac{3x}{3}$$