Mam 3 Q25. 201 02 1 P(2,0) f(x,y) = In (xxy2+117)" (xe+1)" 7 + = of = + of = $\frac{d\xi}{dt} = \cos\left(\frac{x^{3}y^{2} + \pi}{xe^{y} + 1}\right) \frac{(xe^{y} + 1)(3x^{3}y^{2}) - (x^{3}y^{2} + \pi)(e^{y})}{(xe^{y} + 1)^{2}}$ $P(\widehat{2},\widehat{0})$ $\cos(\widehat{3})$ $(0-\pi)$ $\cos(\widehat{4}(-\pi))$ $\pm(-\pi)$ $=-\pi$ df - Ca(xix2+11)(2xiy) - (xix411)(xey) 7 = -17 - 17 3 B Rok or whole $f \circ charge = ||\overrightarrow{f}||$ $= \int \left(-\frac{c}{\Omega}\right)^2 + \left(-\frac{c}{\Omega}\right)^2 = \frac{\sqrt{5}}{18} = \frac{1}{18} = \frac{1}{1$ C derete de III # III 78/50 1 + 11/4/57/11 T - 5 1 4-255 J. D Gyn of plu = Z = f(xy,1) + fx [x,y) [x-x] + fy [x, y,](y-y)

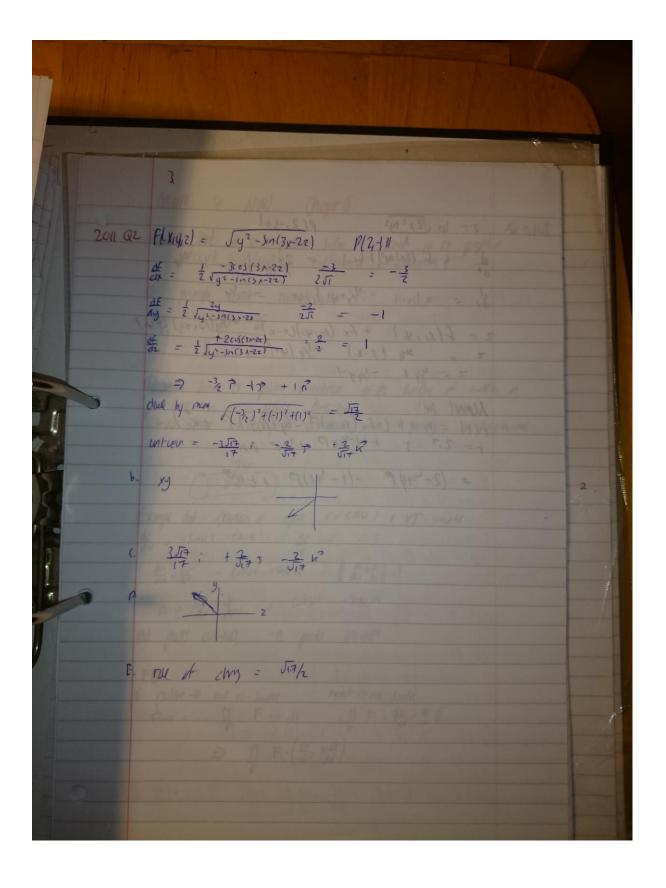
Z = Sin (\(\varphi\)) + (-\(\varphi\)) |(x-2) + \(\varphi\)(y-0)

z = \(\varphi\)/2 - \(\varphi\)/x + \(\varphi\)/y + \(\varphi\)/4 \(\varphi\)

18 z = -\(\varphi\) \tag{2\(\varphi\)} + 2\(\varphi\)

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2012 Q2 [(X1412) = [22 + x-y + 2100 (3y-2x] p(3,2,-1)	20 10
$\frac{1}{\sqrt{1-\frac{1}{2}}} = \frac{1}{\sqrt{1-\frac{1}{2}}} = \frac{1}{$	
1 = 2 / 22+ x-9+2(0)(92)	
254 miles - (140) (40) (40) (40) (40)	
$\frac{df}{dy} = \frac{1}{2} \frac{-1 + 65 \text{ in } (3y^{-2x})}{\sqrt{2^{2} + 2 + 9} + 7 \cos(3y^{-2x})} = \frac{-1}{2\sqrt{4}} = \frac{1}{4}$	
$\frac{df}{dz} = \frac{1}{2} \int_{2^{+}} \frac{2z}{\sqrt{z^{+} + z^{-}}} + \frac{2(\omega)(5y^{-2x})}{(5x)(3x)(3x)(3x)} = \frac{-1}{2}$	
11711 - \(\frac{1}{4}\)^2 + \(\frac{7}{2}\)^2 = \(\frac{5}{8}\).	
unit vav = 4/58 - 1/2/5/8	
257 -255 -45 K	
b selv on R, upe you z	
((had Sy): -25-p +25- +45-4	
0 on xy 142 2.	
E rou of droup -min = 198	
13nd pu = 2 = Flay 1 = 5 (4 4) 1 = 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
22 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
AND THE YALL SELLEN	
	0
A STATE OF THE PARTY OF THE PAR	



2010 Or 2 = In \(\frac{1}{2}x^2 + y^2 \) \(\left(2,-1,0) \) \\
\text{at \frac{1}{2} \left(\left(2x^2 + y^2) \right) \left(2-1) = \frac{2}{2}x^2 + y^2 \left(\left(2x^2 + y^2) \right) \left(\left(2-1) \) = \(\frac{2}{4}x^2 + y^2 \right) \\
\text{at \frac{1}{2} \left(\left(2x^2 + y^2) \right) \left(\left(2-1) \) = \(\frac{2}{4}x^2 + y^2 \right) \\
\text{at \frac{1}{2} \left(\left(2x^2 + y^2) \right) \left(\left(2-1) \) = \(\frac{2}{4}x^2 + y^2 \right) \\
\text{at \frac{1}{2} \left(\left(2x^2 + y^2) \right) \left(\left(2-1) \) = \(\frac{2}{4}x^2 + y^2 \right) \\
\text{at \frac{1}{2} \left(\left(2x^2 + y^2) \right) \left(\left(2-1) \) = \(\frac{2}{4}x^2 + y^2 \right) \\
\text{at \frac{1}{2} \left(\left(2x^2 + y^2) \right) \left(\left(2x^2 + y^2) \right) \\
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\text{at \frac{1}{2} \left(2x^2 + y^2) \right) \left(2x^2 + y^2) \right) \\
\text{at \frac{1}{2} \left(2x^2 + y^2) \right) \\
\text{at \frac{1}{2 84 = 2/(2-1) = 9/x242 ((2,7) = -1/4 2 = f(x), y) + fx (x), y)(x-x) + fy(x), y) (yy)

2 = 4/9 x - 1/4 y-1 Monnal lie! r(H = 10 + 6 (-fx (10,15)13 - fy (10,15) 7 + 12)

r= 27 - 5 + 6(-414 P + 147 + 43 = (2-49) 19 -(1-48) 7 + EW?