A	
•	Opgare 1
1	(N + V 5 N
	a ful=(x+2)cx = xex +2ex
A PARAMAN	
1000	Ser at astille Taylorpalynomics shall
	og Si Sincles
	Pn = f(a) + ((a) (x-a) + (1) (x-a) +
•	f'=1.e*+ x.ex +2e = e*(3+x))
	4 - 1. C + 4. C + 1 E = C (3+ x))
05000	f"= ex, (3+x) + ex. 1 = 3ex + xex + ex = ex(4+x)
	f(0)=2 - f'(0)=3 f''(0)=4
	3 4 2
	$P_2 = 2 + \frac{3}{1}(x - 0) + \frac{4}{2}(x - 0)^2$
•	1-22 102 12
	(b)
1611-169	Lim = (x+2)ex = (-2+2)e-2 = 0
	$\ln (\times +3) \ln (-2+3)$
	Derser bruges L'Horritals
	S'= ex(3+x) Denne Sées dra tiellijera
	f= 1 Delle inclosells
Mark to the	
	$\lim_{x \to 2} \frac{e^{+}(31x) - e^{-}(3-2)}{\frac{1}{2+3}} = \frac{e^{-2} \cdot 1}{\frac{1}{3-2}} = \frac{e^{-2} \cdot 1}{1} = e^{-2}$
	7.3 3.2

Openine 2
Opgave 2 (y) $\frac{1}{2x+\frac{1}{2}}dx=\frac{2}{2}x^{2}+\frac{1}{2}\cdot\ln(x)=\frac{(x^{2}+\frac{1}{2}\cdot\ln(x))^{4}}{(x^{2}+\frac{1}{2}\cdot\ln(x))^{4}}$
$\int_{1}^{2} 2x^{2} dx = 2$ $4^{2} + \frac{1}{2} \ln(4) - \left(1^{2} + \frac{1}{2} \ln(4)\right) = \left(6 + \frac{1}{2} \cdot \ln(4) - 1 = 15 + \ln(2)\right)$
$\int_{-\infty}^{\infty} \left(\frac{1}{4} \left(x - 1 \right)^{3} dx \right)$
Jeg breger partiel integration
$\frac{1}{4\omega^{-\frac{1}{4}}} = \frac{1}{4\omega^{-\frac{1}{4}}} $
$(x-1)^{4}-1:\frac{1}{5}(x-1)^{5}=[x(x-1)^{4}-\frac{1}{5}(x-1)^{5}]^{2}$
$\frac{2(2-1)^{4}-\frac{1}{5}(2-1)^{5}-\left(1(1-1)^{4}-\frac{1}{5}(1-1)^{5}\right)}{2\cdot 1^{4}-\frac{1}{5}\cdot 1^{5}-1\cdot 0^{4}+\frac{1}{5}\cdot 0^{2}-\frac{19}{5}-\frac{1}{5}=\frac{9}{5}}$
Ь
Suf'and = xJan - Fan + (F'an = fan)
huis $+ f(\omega) - f(\omega) + C$ differentieres Derser Joes $(x + f(\omega) - f(\omega) + C)' = 1 \cdot f(\omega) + x \cdot f'(\omega) - f'(\omega) + o$ $= f(\omega) - f(\omega) + x \cdot f'(\omega)$
$= 0 + \cancel{4} \cdot \cancel{f}(\cancel{x})$
Denfor er Sxf(x)dx=xf(x)-F(x)+C

Opgave 3
a fags= ln (x2y+1) -y
$f(z,1) = \ln(z^2 \cdot 1 + 1) - 1 = \ln(5) - 1$
e 1 105) - 1 - Han garger ex i hvert teel us In ag e gar od i forte led ag bliver 3. Dette estado as med en rest po e', Som er det andet led. Dorker fall 5e-1 = 5
fizit 5e-1 = 5 e det andet led. Durker
b ficty = 2 g+1 · 2 xy f2 = 2 g+1 · x2 -1
Huis Foe er apfyldd a (1,0) ed kritish ponlit
f, (1,0)=12.0+ · 0=0 f, (1,0) = 2.0+1 · 12-1=1-1=0 Derfer er (1,0) et knitish publit.

b fortsat
$M = \frac{1}{2} \cdot 1 \cdot $
$f'_{1} = x^{2}y+1 \cdot 2xy$ $f''_{2} = x^{2}y+1 \cdot x^{2}-1$
Jeg Inclueller y=0
2 ytl 2xy=0 1 1 2 1
X2.0+1 = 1
7, =06/2,11
x = 1
9=0
X - 11 (1997)
y=0 ×=1 v ×=-1
X=1 V X1
Del es des l'éclisées à 11
Perfe er der to kritiske pinkter.
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CONTRACT PRODUCT AND STREET AND STREET AND STREET AND STREET AND STREET AND ADDRESS OF THE PRODUCT AND STREET

1977	d
	f, = (xy+1) - 224 f= (xy+1)x-1
	$\int_{1}^{1} = -\frac{1}{2}(\frac{2}{2}y+1) \cdot 2xy \cdot 2y = -\frac{4x^2}{(\frac{2}{2}y+1)^2}$
	$f_{22}^{11} = -(\chi^2 y + 1)^2 \cdot \chi^2 \cdot \chi^2 = \chi^4 $ $(\chi^2 y + 1)^2$
*	$\int_{11}^{11} (1/0) - \frac{4 \cdot 1 \cdot 0^2}{(1^2 \cdot 0 + 1)^2} = 0 = 0$
	$f_{22}^{11}(1,0): \frac{1}{1} \frac{14}{(1^{2} \cdot 0 + 1)^{2}} = \frac{1}{1} = -1$
	$ H(1,0) = \begin{pmatrix} 0 & 2 & A = f_{12}^{11} \\ 2 & -11 & C = f_{22}^{11} \end{pmatrix}$
7/10	Vha. AC-B2 bestemmes punkted (1,0)
	O. (-1)-22 = -4 40 AC-82 40 clerfor er det et Sadelelpontet
No.	

