Monoregula: # (x) = F(C(x)), H'(x) = F'(C(x)). C'(x)

Hamponulforn: flur-in), quix), -, quix) makiner

1 (x) = f ( q (x)) -, qu (x)

3x; - 3x 3x; + 3x 3x; + - + 3x 3x; - + 3x 3x; - + 3x 3x; - 3x 3x;

Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \text{den affinantiality}$ Linearisming.  $T_{8}\vec{F}(\vec{x}) = \vec{F}(\vec{a}) + \vec{F}'(\vec{a})(\vec{x} - \vec{a}) \leftarrow \vec{F}(\vec{a})(\vec{x} - \vec{a}) \leftarrow \vec{F}(\vec{a})(\vec{x} - \vec{a}) \leftarrow \vec{F}(\vec{a})(\vec{x} - \vec{a}) \leftarrow \vec{F}(\vec{a})(\vec{a})(\vec{a}) + \vec{F}(\vec{a})($ 

Mala- og mingrellener else kilotingelsen: Sadelpunkter

Stagional punk: 2t (a) = 0 fan olle i = 4-m. Lokele mis

Speciall for funtazioner au le vaniable:

$$D = \begin{vmatrix} \frac{3}{21} & \frac{3}{21} \\ \frac{3}{21} & \frac{3}{21} \end{vmatrix}^{2} = \begin{vmatrix} \beta & c \\ \gamma & 3 \end{vmatrix}$$

(i) Dc 0 => Dadlpull (ii) D> 0 => \ lotal male his Aco (ed cco) \ lotal min his A>0 (ed c>0)

Malo min med bildingsbeer:

Fin malo(min II f(x,1x,1...xn) under bildingsbeen

og,(x,2...xn) = b,

og,(x,3...xn) = b,

$$\nabla \int_{\mathbf{r}} |\vec{x}| = \lambda_1 \nabla q_1(\vec{x}) + \cdots + \lambda_k \nabla q_k \vec{v}$$

$$q_1(\vec{x}) = b_1$$

$$q_1(\vec{x}) = b_2$$

$$q_1(\vec{x}) = b_2$$

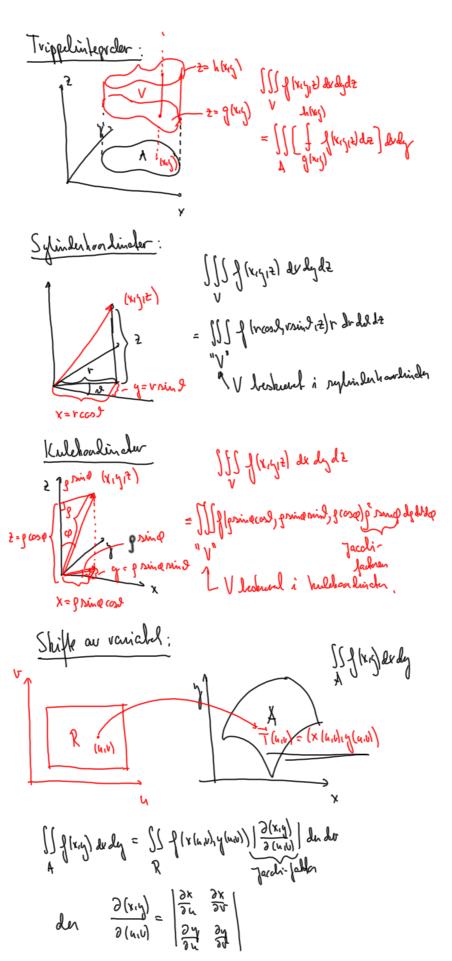
$$q_2(\vec{x}) = b_2$$

$$q_3(\vec{x}) = b_4$$

$$q_4(\vec{x}) = b_4$$

$$q_$$

Omundle funbajoner: F: R'-R'. Desam F(a) er innluber 3 sà finnes del en (lokel) omræde funkgan definest i el omræde  $\vec{l} = \vec{F}(\vec{a})$ , og  $\vec{l} = \vec{l}$  $\vec{C}'(\vec{k}) = \vec{F}'(a)^{-1}$ Implisite funtiquer:  $f(\vec{x}, y) = 0 \Rightarrow y = g(\vec{x})$ Aula al f(\vec{a},b) = 0 og al \vec{2}\text{f(\vec{a},b) \delta O(\vec{s}\times \text{fines}} \\
del en funksjon og definal på en omegn av \vec{a} \text{skih al} g(z/=b og f(x,g(x))=0. De doublig or gitt red  $\frac{\partial q}{\partial x_i} = -\frac{\partial x_i}{\partial x_i}$   $\frac{\partial q}{\partial x_i} = -\frac{\partial x_i}{\partial x_i}$   $\frac{\partial q}{\partial x_i} = 0$   $\frac{\partial q}{\partial x_i} = 0$   $\frac{\partial q}{\partial x_i} = 0$   $\frac{\partial q}{\partial x_i} = 0$ 



all you need is needer

(i) Known konungumboho for positive rebber og albumena vækler

Konsequatories: I f(n) tomergen = If(s) de bornoque.

Coursementique photon: In, Ih, in to poster rubber.

(i) His In, homeoper of ly and on, or longer

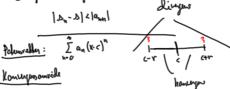
(10) Hus Ian disuppor of him and >0,00 disequen også Elm.

Bruk: Gitt in rethe I by med elyente hansagus agundagay fin en lagent velle à sommerligne und.

Foholdstella Vollesten: Ian en valle

= 1 > six for home ingle harhlunger,

Allemende rather: His land outer and rull, so han



Komunguo van Klx-d 21, dus lx-d 22 langue in Klad> 11 der 14-cl> &

Hua shojur: enlegeenther? Satt in of se ather.

Typich sommulipringhed med in

Firm a human on valler.

S(x) - \( \frac{2}{2} \text{ n x"} \) inkpor (\text{ int})

 $\frac{\int w depen}{\int \frac{x}{x} dx} = \sum_{n=1}^{\infty} x \frac{x^n}{x} = \sum_{n=1}^{\infty} x^n = \frac{x}{4-x} + c$