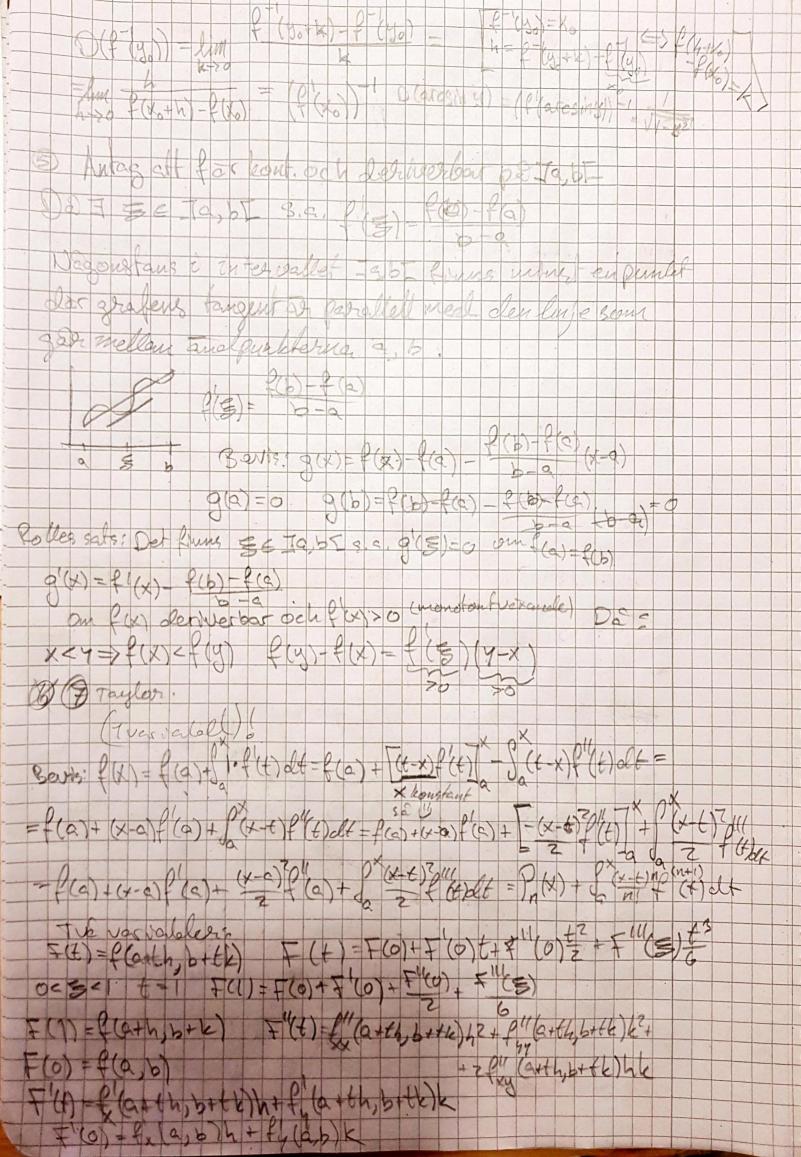
Scriptiga teorificacos Q>1 => lim. ex = 0 9=1+P P>0 n=[x] a=(1+e) = (1+p) = (2) p= n(n-1) = => 0 × 10(4-1) fine x = dem x-15 = 0 lun lux line lux telux telus to o enlighores (=) Sund exe bound Cost line sour < 1 Source / Customenings lagen. Lun (u(1+x) - lun (u(1+x) + t= k] - lun (u(1+1) + - (ue=1 $\lim_{x \to 0} \frac{(e^{x} - 1)}{x} = \lim_{x \to 0} \frac{y}{(y + 1)} = \lim_{x \to 0} \frac{y}{(y + 1)} = \lim_{x \to 0} \frac{y}{(y + 1)} = \lim_{x \to 0} \frac{y}{(x + 1)} = \lim_{x \to 0} \frac{$ - land COS (a+2) land 3/2 = COS (a) Sin(x) & Rominsuelling och

4-20 - 203(a) h-76 - 1-3inx arcsin(y) = x (Pa) + P'(P) Cos(accs m(X)) 11-x2 1x cosd=1-2 arcoing (1-x)And (2-x) (2-x)



8) 2 (f(g(t),h(t)) = lim ((g(t+)+),h(t+)+) - 2(g(t),h(t)) = = \(\frac{1}{a} = g(\frac{1}{a}) \\ \le = g(\frac{1}{a} + \frac{1}{a} + = f(g(+),h(+))g(+)+2/(g(+),h(+))h(+) + f(m) (2+(2))g(+) - h(+)) + (2+(2))g(+) + f(m) (2+(Jim ((g(t+2+)+g(+))2+ (h(t+2+)+4(+))) (K,1) = 13 tallet for att baseda på hun en funktion forandes Sig i ricebring med x-och y-ax come, 30 bandet vara introsseut at far reda pà men foranchingen Parkaller sig fell en annout rollfning, W=(u,v)?

P(a,b)=lim (a+tu, b+tv)-f(a,b) = d(f(a+tu, b+tv))=

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to (a+tu, b+tu, b+tv)-f(a+tu, b+tv) = f(a+tu,b+th) u+fu(a+tu,b+tv) V(t=o = f(a,a) u+fu(a,b) v =
gradien: \(\forall f = \left(\frac{1}{2} \right) \right) \frac{1}{2} \right] \(\forall w = \text{Vf} \cdot w \)

gradien: \(\forall f = \left(\frac{1}{2} \right) \right) \cdot f \text{y} \right) \(\forall w = \text{Vf} \cdot w \)

1\(\text{W} = \text{V} \cdot \text{W} \)

1\(\text{W} = \text{V} \cdot \text{W} \) gradienter be & Sencle ande part der in besterner hur forandringen steer, oanself ratebrine. Menbara on for differentierber. Anners & ente leedjeregelin uppfyllal! Och richningsderin.

For underesten us betale- panchy schwarz obiehet:

| gradf(a) | f.(a) = 18 rad f(a) | w = 19 rad f(a) | f.(a) = gradf(a) • W = | gradf(a) | W | COSA me, mal is gradelanferes of g

1) Posithet definit à Den associade headentiere Course (AVS) the reposels has Q(4,6) > 0 Fast (4,6) + (90) Deg def Quil to Cor V Chik 70 love more Indefinit: Q(h, k) autar bade portors de la reacture Pas semidet. QUIDED mentate posiclet. Deg. semiclef. O(ne) & o men the neg. clek. Por & Chris Aurora att for coin, deriveduan multa bo och (25 or en sationar puncto, on I he or pos del Bevis. P(a+h,b+k) = P(a,b) (p=0) + 1 Q(h,k) + (h=k) B(h,k) = M der as (c, b) en minquitet. demma Om Q pos. del sé I 3-0 s.a Q (4, K) > 8(4, K) Q(4,4) - Q(1,4) - Q(4,6) - O(4,6) - O(4,6) - O(4,6) - O f(a+4,b+k)=f(a,b)+&(47+69)+(47 2 + Vw+628(h, e) = 2 - J2+22 /1 = 5 - 5 - 5 - 6 - m in (E , 2 m) 11) Cauchy's interpolation cover set on Par er positivoch autagniele ner x 21, a & a Efter rome = Sfexion tone = form 12) Cauchy's Rothriterium: Antag: | d'Alemberts Wolkriterium: lun ale A (Pos. Serier) Antag: fine ax - A De bygger på JEKT SALI DE av leonvergent (A) 1 => 2 a Divergent GO > Det JW 3.9 KW > QUECT