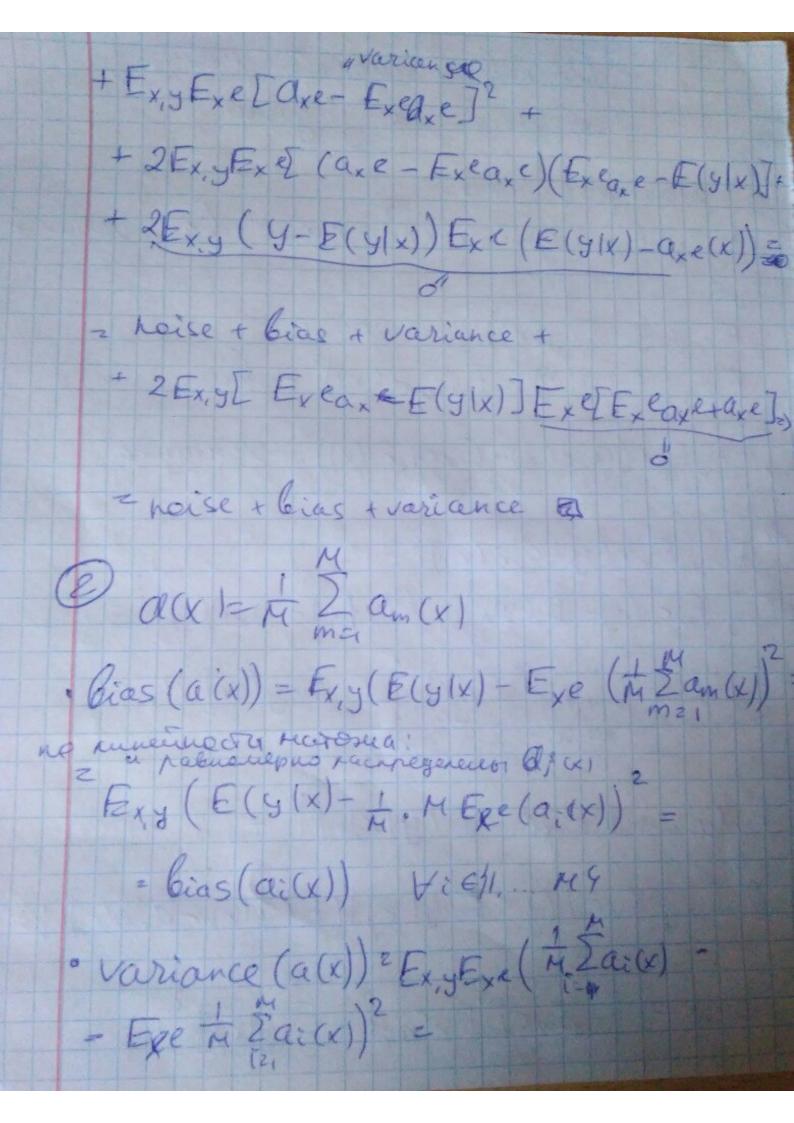
Teoferire une jagaru. Dougesto, 200

Exig Exe (y-axe(x)) = noise + lias + variance.  $E_{x,y}(y-E(y|x))^2$  - noise  $E_{x,y}(E(y|x)-E_{x}e_{ax}e(x))^2$  - lies ExyExe(axe(x)-Exeaxe(x))2-Variance Exig Exe(y-9xe(x))2= = Exig Exe(y-E(y|x)+E(yfx)-O(xe(x))2= 2 ExyExe [y-E(y|x)]2 + ExyExe[axe-The me jubecut oux - Exeaxe + Exeaxe - E(y(x)] + + 2 Exy Exe [(y - E(y|x))(E(y|x) - axe(x))] = = noise + ExyExe[Exeaxe-E(glx)] +



= H2 Exg Exe ( Z (ai(x) - Exe(ai(x)))? Exe (ac(x) - Exe(ac(x))(ac(x) - Exe(ac(x)) + 27

\forall j = i F / Exy Exe M (aick) - Exe(aick)) = = the Variance (ai(x)) Vien, HE (3) X. Xm ~ 40 p cn. 6 c greeneprises 6

Viji i # j CONT (X: X;) = P. EX, = Q (D) X = 2( (M) X:) = E ( (M) X: - 9) = = m= E(Z(x:-a)) = m2(ZE(x:-a)2+ +  $\frac{2^{m}}{2^{m}}$  (x: -a)(x; -a)) =  $\frac{1}{16^{2}}$  +  $\frac{1}{12}$  2 $\frac{2^{m}}{16^{2}}$  2 $\frac{2^{$