AMP 199570 / DATE 4. 23. 問3.1 e元 290-92展開 ta)= e-1. +101=1 (=) f(x) - f(0) + f'(0)x + f'(0) x2+ + f''(0) xn. fix1= -e-x +10)=-1 = fix1= 1-ex+ ex 2 - ex 3: x3+ + (-1) n f/0) n fm/x)=(-1)nex = 1-ex+ ex 2 ex 2 ex 2 + (-1) n ex xn 1932. da = cosa + isma eil = cosa + isma eia. eile = (cosa+isma) (cosh+isma) = (cosacosh-3masmh)+i (smacosh+cosasmh). cosath)+ ism(ath) = (cosaeou- smasme)+ i (smacosb+ cosasme) + eilare) = eia eia e. 5/3. $| \mathcal{E} | 3.3. \quad e^{i\alpha} = \cos \alpha + i \sin \alpha.$ $(e^{i\alpha})' = -\sin \alpha + i \cos \alpha = i (\cos \alpha + i \sin \alpha) = i e^{i\alpha}.$ 1/2) = -12 eich Jot. Mit 1= (ix) e ita 13(c) = - 123eila. n' It) = (it)" eitt.