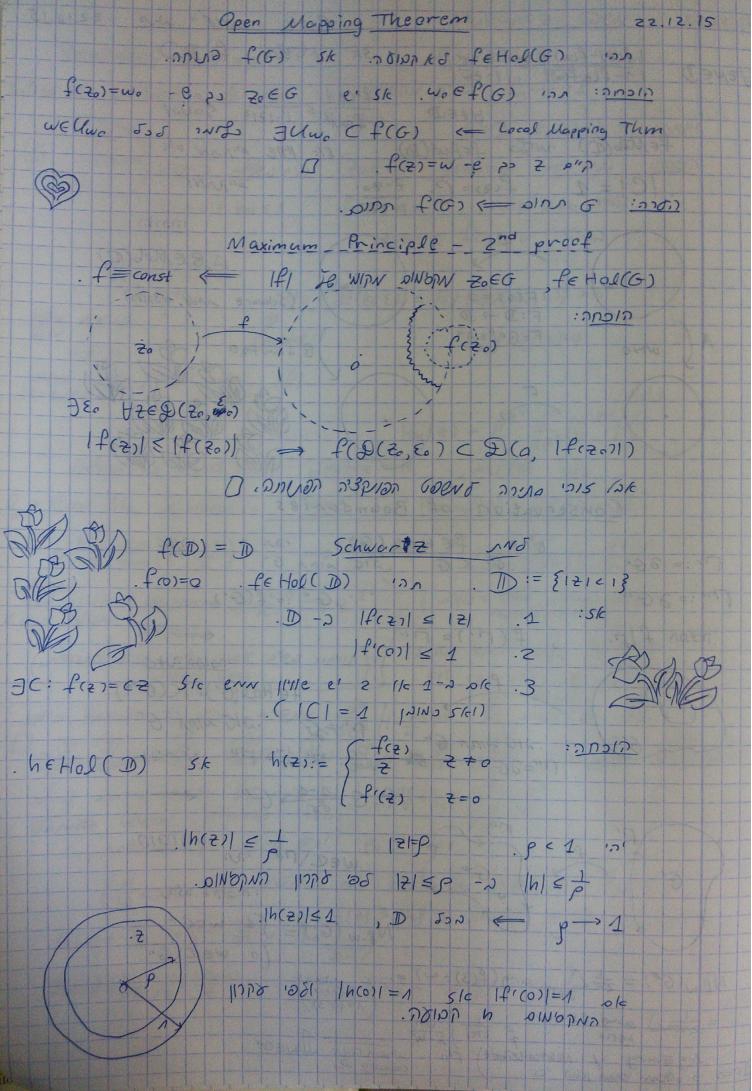
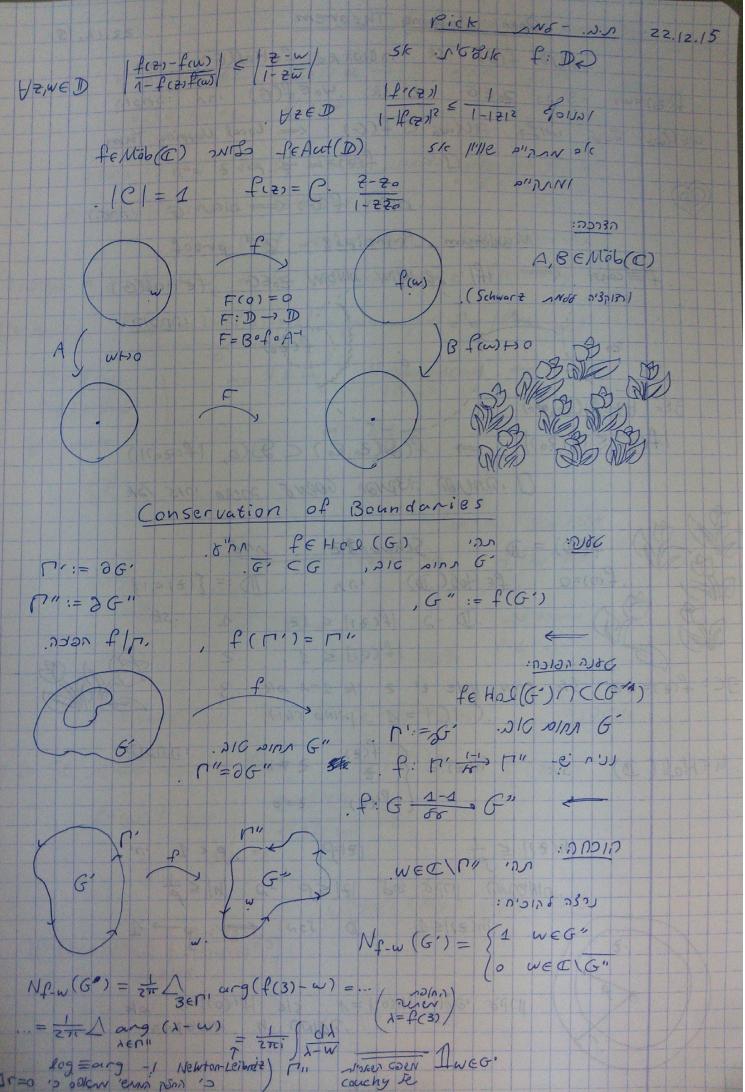
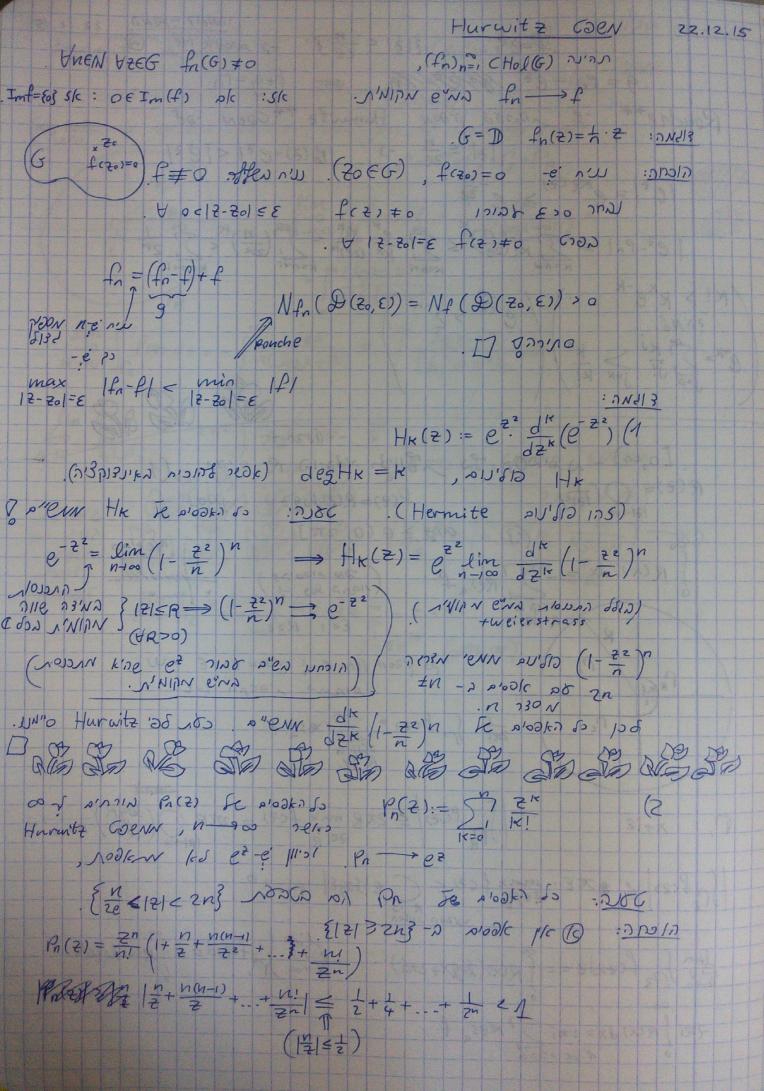
Local Mapping Theorem 22.12.15 m=mult f-we (Zo) 510, 420-2 NOBIR F(20)=WO OF :27367 g∈Hol /(127) $f(z) = w_0 + (z - z_0)^m g(z)$ 9(20) = 0 m = mult (20) . f(20) = wo , 20/27 K5 feHOLG), ZOEG : GOEN ∀ε∈ (0, ε0) ∃5>0 ∀w: 0< |w-woi=0 : " 5/c -2 picresi pure nuisso m pinis frai-m skillent 3>10-5-51>0.

Proof of the Local Mapping Than 22.12.15 ∀ 0<17-701 ≤ €0 \$(2) ≠ €0 Wo 16, 02 03 (20 10: 0 < 1 2 - 70 | EEO | f'(2) = 0 [12-201=E] de Rouche 60er 16.5'80) ? WIRN M et fizz=w-s. pr plei - Mino m et fizz=wo-s (12-201=E) |(f(2)-wo)-(f(2)-w)| = |w-wo| < 5 \ |f(2)-wo| $F = f - w_0$ F + G = f - w $G = w_0 - w$ $M = N f - w_0 = N \text{ (f - w)}$ M = N f - w M = N f - w M = N f - wא קרה פרט': 1 = m. f(20) = wo f'(20) =0 f: Uzo 581 > Uwo 1 ,25 272 MA · Uwo -2 7033 f-1 -! f-1∈Hol(Uwo) € f: Uzo doi Uwo :DIPON 7 for the renow arow e', sour . (f-1) (wa) = f'(za) $f^{-1}(\omega) = \frac{1}{2\pi i} \int \frac{3 \cdot f'(3)}{f(3) - \omega} d3$ Chipsen Coen) pisos .2.1 $|f^{-1}(f(z))| = \frac{1}{2\pi i} \int \frac{3 \cdot f'(3)}{f(3) - f(z)} d3$







$$f = e^{\frac{1}{2}} \quad \text{[Iz]} = \frac{n}{2e}^{\frac{1}{2}} \quad \text{[In]} = \frac$$