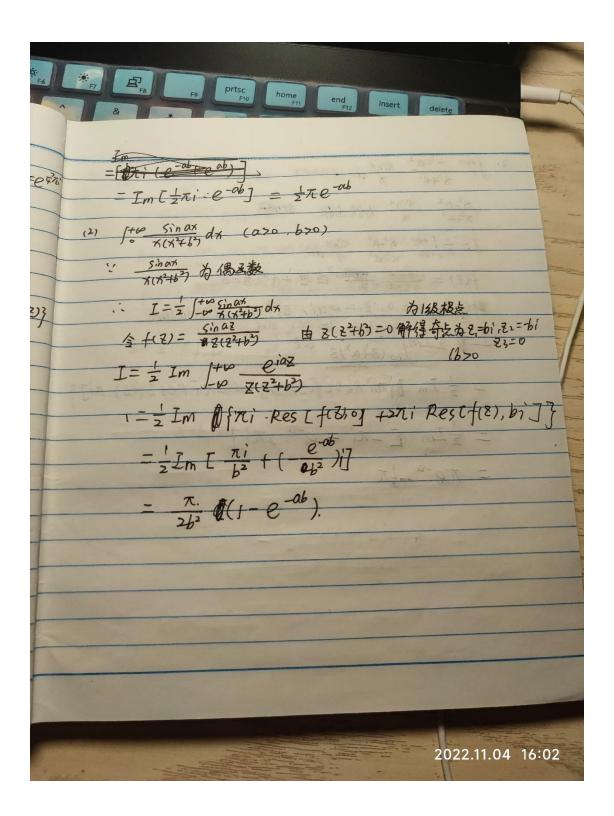
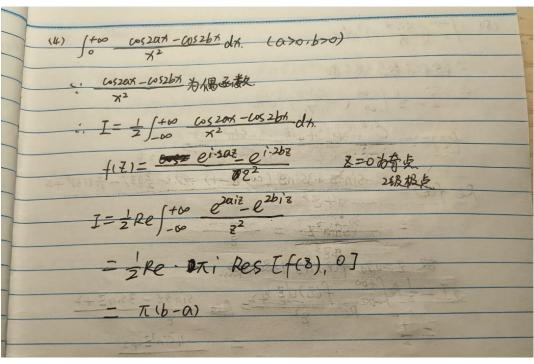


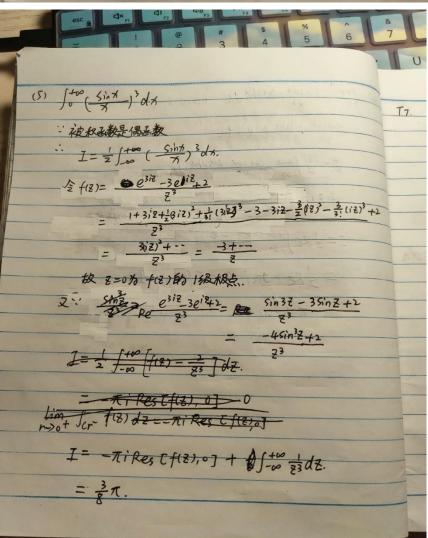
2022.11.04 16:02



(3) Stoo +2-a2 sint dx (a>0) (4) $I = \frac{1}{2} \int_{-\infty}^{+\infty} x^2 - a^2 \int_{-\infty}^{+\infty} x^2 + a^2 \int_{-\infty}^{+\infty} dx.$ $f(z) = \frac{z^2 - a^2}{z^2 + a^2} = \frac{z^2 - a^2}{$ 解得我是 2=0, Z=@ai, Z=-ai 协为1级极点.

I-是之下的(2-a)eiz
dz = 1/2 Im [{ni restf(2), 0] + 2/Ti Pestf(3), ai] $= \frac{1}{2} Im \left[-\pi i + e^{-\alpha} \cdot 2\pi i \right]$ = Te-a-17 2022.11.04 16:02



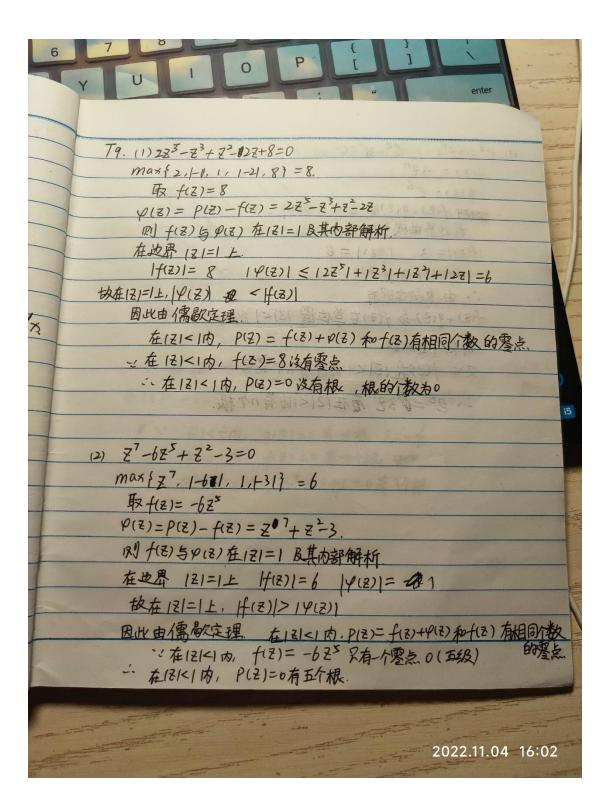


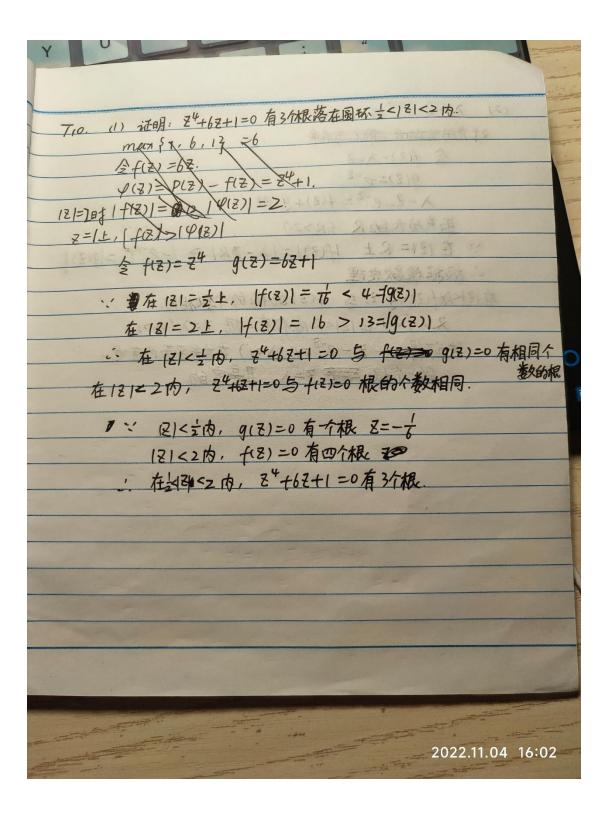
1	T7. S+100 LOSX-e-Mdx
1	7
1	$F(z) = \frac{e^{iz} - e^{-z}}{z}$ $Re F(z) = \frac{a(z - e^{-z})}{z}$
+	再又闭路 C的四分之一图: 121 <r, 3="" 4="" re="">0, Im 8 >0 的边界</r,>
	· F(Z) 在全平面内解析
	Sc ReF(2)=0. 0= (2004) 400 184 184
	0为 F(Z)的15及极点、 Res Ef(Z),0]=Q-1
1	PHO 12 PM
	The first of the state of the s

Tq. (1); lim [i for fertig) dy]=0

p)+10

Z: fR f(x+20 =) dx= fR = (x+1) - e-x(x+1) 0(x) 协在1 $-\frac{1}{i}\int_{R}^{R} \frac{x}{e^{\pi x}+e^{-\pi x}} dx$ $+\frac{1}{2}\int_{-R}^{R} \frac{dx}{e^{\pi x}+e^{-\pi x}}$ - Sto ebu du = The sin The $\int_{-\omega}^{+\omega} \frac{\pi}{e^{\pi x}} \frac{\pi}{e^{\pi x}} \frac{dx}{dx} = \frac{1}{8}.$ $\int_{0}^{+\omega} \frac{\pi}{e^{\pi x} - e^{-\pi x}} dx = \frac{1}{8}.$





(3) $e^{2} = 32^{n}$. $e^{2} - 32^{n} = 0$ $f(3) = -32^{n}$ $g(2) = e^{3}$ $e^{2} = 32^{n}$ $e^{2} = 22^{n} = 0$ $e^{2} = 22^{n}$