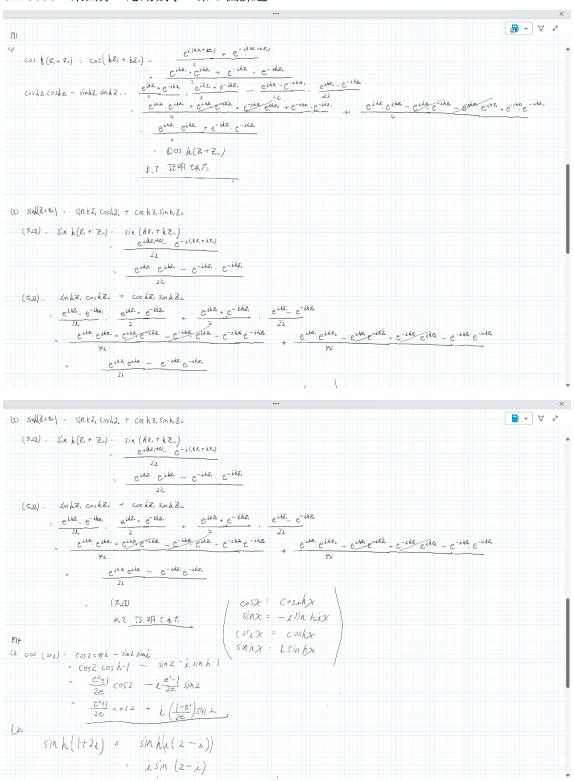
8223036 栗山淳 応用数学 第3回課題



sinh(1+2i) = sinh(i(2-i)) · isin (2-i) = i (sin2 cosi - cosz sini) $i \left(\frac{\sin 2 \cdot (\cosh 1 - \cos 2 \cdot i \sinh 1)}{\sin 2 \cdot (\sec 1) \cos 2} - i \left(\frac{e^2 + 1}{2e} \cos 2 \right) - i \left(\frac{e^2 + 1}{2e} \cos 2 \right)$ $= \frac{\left(\frac{e^2 - 1}{2e} \right) \cos 2}{2e} + i \left(\frac{e^2 + 1}{2e} \right) \sin 2$ (3) SIN(++2i). SIN & COSZi + COS & SIN ZX : 1 coszi + 1 sin 2i = = cosh2 + = isinh2 c cosh2 + e sinh2 cos k(2+ xi) . cos hi (-2i+ x) = cos h i (= -2i) = cos (= -2i) . cos 7 cos 22 + sin 7 sin 2 1 COSZX + JSIN ZX cosh(2+ \frac{\pi}{\pi}i) , coshi (-2i+ \frac{\pi}{\pi}) ■ ~ ∀ ≥ = cos h i (\$\frac{7}{4} - 2i)
= cos (\$\frac{7}{4} - 2i) . cos \$ cos 22 + sin = sin] · 5 coszi + Lsin zi = 1/2 cosh2 + 1-1 sinh2