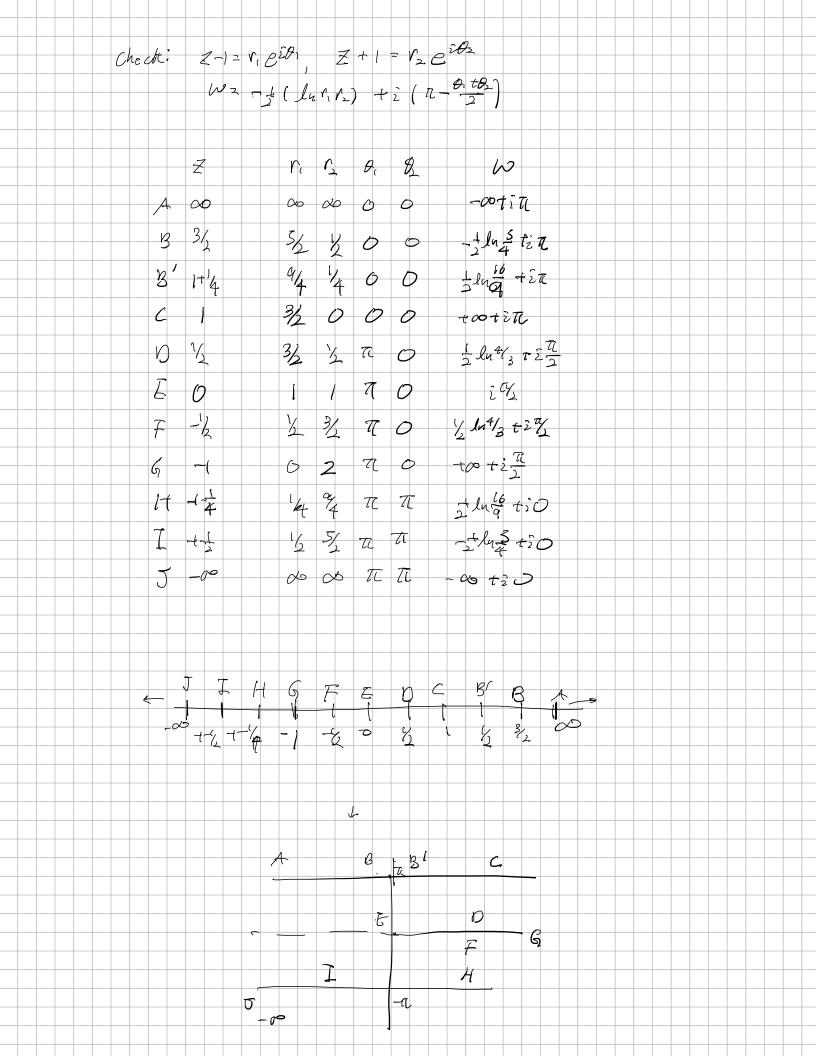
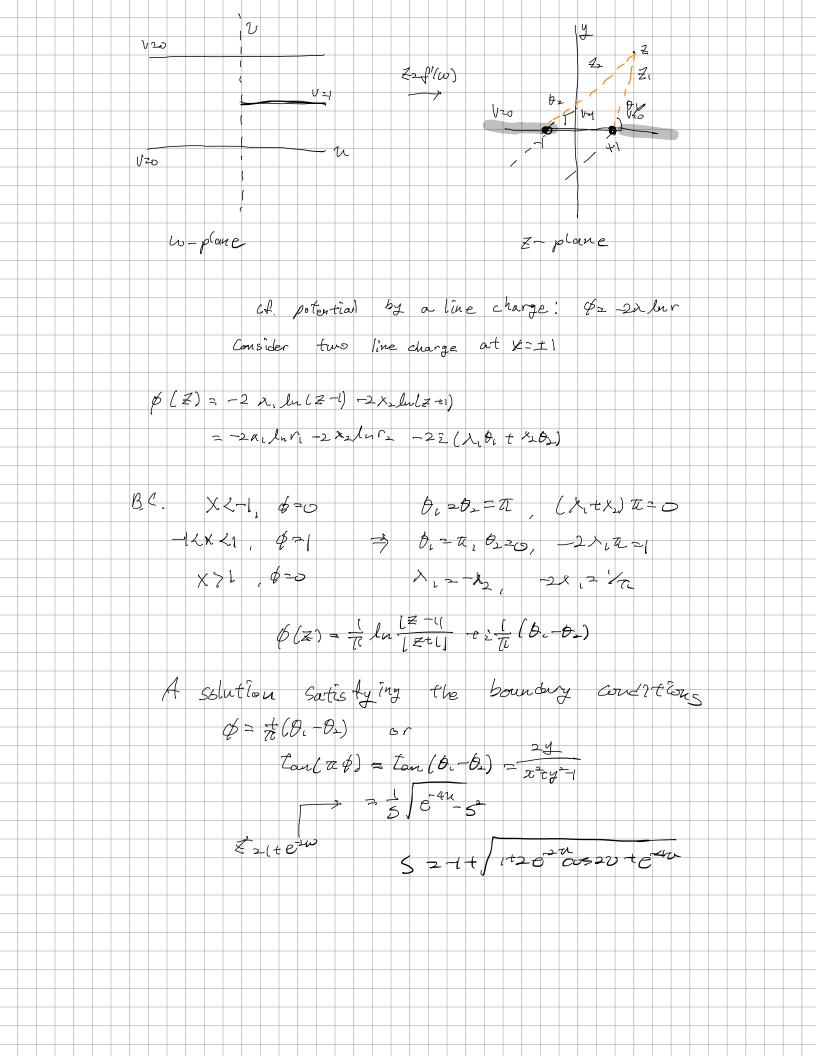


i) 
$$Z = X \times 1 : W_1 - W_1 \text{ fine } (2 - \alpha x i s, V = 0)$$
 $arg(2 + 1) = 2 = arg(2 - 1)$ 
 $v = 0 : Z = X \to 1, ln(2 + 1) \to -\infty \Rightarrow C'' = 0$ 
 $0 = \frac{1}{2} \left[ (1 + x_2) \pi + (1 - x_3) \pi \right] + G'' \to -\pi G' = G''$ 

ii)  $1 < Z = X \le X : W_2 - W_2 \text{ fine } (2 \times 20, V = \frac{\pi}{3})$ 
 $arg(Z + 1) = 0, arg(Z - 1) = \pi$ 
 $\frac{\pi}{2} = \frac{G'}{2} (1 - x_2) \pi + G''$ 
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 $\frac{\pi}{2} = \frac{G'}{2} (1$ 





I. Method by separation of variables. the most general method -a solution is given by an expansion in orthogonal functions. P to J & -2 tip (Polsson equation) hreen's function method.

177=0 needs to be 50 lved (Laplace equation) P=0 \$\$\$ = 0 a) Basics 1) A set of orthogonal functions [An], a < x < b, no, --, as  $\int_{\alpha}^{b} dx + \int_{\alpha}(x) + \int_{\alpha}(x) = \begin{cases} 0 & m \neq n \\ c & m = n \end{cases}$ Then any Sunction F(x) can be represented in terms of fanj  $F(x) = \sum_{n=1}^{\infty} a_n f_n(x) \qquad a_n = \int_a^b dx F(x) f_n(x)$ 

The post famous example: Fourier expansion or series

$$\frac{1}{16} \sin \left( \frac{n^{24}}{a} \times \right), \int_{\frac{\pi}{a}} \cos \left( \frac{n^{24}}{a} \times \right)$$

$$\frac{\pi}{3} \times 2 = \frac{\pi}{2}$$

$$\frac{\pi}{160} \sin \left( \frac{n^{24}}{a} \times \right)$$

$$\frac{\pi}$$