

$$f(z) = \sqrt{\log_{\Delta}^{(z-1)}} \quad \begin{matrix} z-1 > 0 & z > 1 \rightarrow z > \frac{1}{\Delta} \\ \log_{\Delta}^{(z-1)} > 0 & z-1 > 1 \rightarrow z > 2 \end{matrix} \quad D_f = (19 + \infty) \quad -\delta$$

$$\text{ب) } y = \log(\sqrt{\cos z + 1}) \quad \begin{matrix} \sqrt{\cos z + 1} > 0 \\ \cos z > -1 \\ \cos z > -\frac{1}{\sqrt{2}} \end{matrix} \quad D_f = (2k\pi - \frac{\pi}{2}, 2k\pi + \frac{\pi}{2}) \quad -V$$

$$\text{ج) } y = \sqrt{\log \frac{z-1}{z+1}} \quad \begin{matrix} \frac{z-1}{z+1} > 0 \\ \frac{-1}{-1} - \frac{1}{-1} + \end{matrix} \quad D_f = (-\infty, -1) \cup (19 + \infty)$$

$$f(z) = \sqrt{(a+z^2)z^2 \cos z + b} \quad \sqrt{xz+b} \quad \boxed{b=y} \quad -\Lambda$$

$$a+z^2 = 0 \rightarrow a = -z^2 \quad -z, b \geq 0$$

$$\frac{b}{z} = z \rightarrow \boxed{b=y} \leftarrow z \geq z \quad \leftarrow \frac{b}{z} \geq z$$

$$f(z) = \sqrt{z^2 + 2z + 1 - h^2} \quad \begin{matrix} -\sqrt{2} \leq h \leq \sqrt{2} \\ [-\sqrt{2}, \sqrt{2}] \end{matrix} \quad \sqrt{2} - -\sqrt{2} = 2\sqrt{2} \quad -9$$

$$f(z) = \frac{\sqrt{4-z^2}}{[z] + [-z] + 1} \quad \begin{matrix} 4-z^2 \geq 0 \\ z \geq z^2 \end{matrix} \quad \boxed{-2 \leq z \leq 2} \quad 6 \Delta - 10$$

$$D_f = [-2, 2] - \left\{ \pm \frac{1}{\sqrt{2}} \right\}$$

$$\hookrightarrow \frac{1}{\sqrt{2}} = \text{مربع}$$

$$\boxed{-2, -1, 0, 1, 2}$$