$$\varphi(z_1) = P\frac{-i}{2(s_1-s_2)(1+is_1)}\left[1-\frac{z_1}{\sqrt{z_1^2-R^2(1+s_1^2)}}\right] \tag{1}$$

$$\psi(z_2) = P\frac{+i}{2(s_1-s_2)(1+is_2)}\left[1-\frac{z_2}{\sqrt{z_2^2-R^2(1+s_2^2)}}\right] \tag{2}$$

$$\left.\begin{aligned}\varphi(z_1) &= P\frac{-i}{2(s_1-s_2)(1+is_1)}\left[1-\frac{z_1}{\sqrt{z_1^2-R^2(1+s_1^2)}}\right]\\ \psi(z_2) &= P\frac{+i}{2(s_1-s_2)(1+is_2)}\left[1-\frac{z_2}{\sqrt{z_2^2-R^2(1+s_2^2)}}\right]\end{aligned}\right\} \tag{3}$$

$$\left.\begin{aligned}\varphi(z_1) &= P\frac{-i}{2(s_1-s_2)(1+is_1)}\left[1-\frac{z_1}{\sqrt{z_1^2-R^2(1+s_1^2)}}\right]\\ \psi(z_2) &= P\frac{+i}{2(s_1-s_2)(1+is_2)}\left[1-\frac{z_2}{\sqrt{z_2^2-R^2(1+s_2^2)}}\right]\end{aligned}\right\} \tag{4}$$