$$u^2\,\underline{\underline{y}} - \frac{3}{2}u\,\underline{y} - \frac{3}{2}y = 0 \Longrightarrow \begin{cases} \mu_0 = -12 & {}^u y_0 = 1/\sqrt{u} \\ \mu_1 = 3 & {}^u y_1 = u^3 \end{cases} \Longrightarrow {}^u y = \frac{a_0}{\sqrt{u}} + a_1\,u^3$$

$$u^2\,\underline{\underline{y}} - 3u\,\underline{y} + 4y = 0 \Longrightarrow \begin{cases} \mu_0 = 2 & {}^u y_0 = u^2 \\ \mu_1 = 2 & {}^u y_1 = u^{2^u} \not{\epsilon} \end{cases} \Longrightarrow {}^u y = a_0\,u^2 + a_1\,u^{2\,{}^u} \not{\epsilon}$$

$$u^2\,\underline{\underline{y}} - 5u\,\underline{y} + 9y = 0 \Longrightarrow \begin{cases} \mu_0 = 3 & {}^u y_0 = u^3 \\ \mu_1 = 3 & {}^u y_1 = u^{3^u} \not{\epsilon} \end{cases} \Longrightarrow {}^u y = u^3\,\underbrace{a_0 + a_1{}^u \not{\epsilon}}$$