

$$p = 2$$

$$\begin{aligned} x^{(2)} &= \frac{10 - y^{(1)} - 2z^{(1)}}{7} \\ &= \frac{10 - 0.82143 - 0.15080}{7} \\ &\doteq 1.28968 \end{aligned}$$

$$\begin{aligned} y^{(2)} &= \frac{8 - x^{(2)} - 3z^{(1)}}{8} \\ &= \frac{8 - 1.28968 - 0.2262}{8} \\ &\doteq 0.81052 \end{aligned}$$

$$\begin{aligned} z^{(2)} &= \frac{6 - 2x^{(2)} - 3y^{(2)}}{9} \\ &= \frac{6 - 2.57936 - 2.43156}{9} \\ &\doteq 0.10990 \end{aligned}$$

$$\begin{cases} x = 1.28968 \\ y = 0.81052 \\ z = 0.10990 \end{cases}$$

$$p = 3$$

$$\begin{aligned} x^{(3)} &= \frac{10 - y^{(2)} - 2z^{(2)}}{7} \\ &= \frac{10 - 0.81052 - 0.21980}{7} \\ &\doteq 1.28138 \end{aligned}$$

$$\begin{aligned} y^{(3)} &= \frac{8 - x^{(3)} - 3z^{(2)}}{8} \\ &= \frac{8 - 1.28138 - 0.32970}{8} \\ &\doteq 0.79862 \end{aligned}$$

$$\begin{aligned} z^{(3)} &= \frac{6 - 2x^{(3)} - 3y^{(3)}}{9} \\ &= \frac{6 - 2.56276 - 2.39586}{9} \\ &\doteq 0.11571 \end{aligned}$$

$$\begin{cases} x = 1.28138 \\ y = 0.79862 \\ z = 0.11571 \end{cases}$$