

$$\begin{aligned}y + z &= px; & px + x &= a \\x + y &= qz; & qz + z &= a;\end{aligned}$$

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$$\begin{aligned}x &= \frac{a}{1+p} \\y &= \frac{a(pq-1)}{(p+1)(q+1)} \\z &= \frac{a}{1+q}.\end{aligned}$$