

2.3.

$$G(z) = \frac{z^{-1}}{z} \left[\frac{G(s)}{s} \right]$$

$$= \frac{z^{-1}}{z} \left[\frac{1}{s(s+1)} \right] = \frac{\cancel{z^{-1}}}{\cancel{z}} \frac{\cancel{z}(1-e^{-1})}{(\cancel{z}-1)(1-e^{-1})}$$

$$= \frac{1-e^{-1}}{z-e^{-1}}$$

$$Y(z) = G(z) \cdot X(z) = \frac{10(1-e^{-1})z}{(z-1)(z-e^{-1})}$$

$$\begin{array}{r} z^2 - 1,052z + 0,968 \overline{) 6,52z} \\ \underline{z^2 - 1,052z + 0,968} \\ 0,52z^{-1} + \dots - z^{-5} \end{array}$$