$\varepsilon = 2{,}028e^{-9}$

$$sT_{...} = \frac{-1}{\varepsilon s^7 - 1} = \frac{1}{1 - \varepsilon s^7}$$

```
zFcn =

        -1
  -----------------
  2.028e-09 z^7 - 1

Continuous-time transfer function.

zFcn =

  -6.581e-07 z^7 - 4.606e-06 z^6 - 1.382e-05 z^5 - 2.303e-05 z^4 - 2.303e-05 z^3 - 1.382e-05 z^2 - 4.606e-06 z - 6.581e-07

  ---------------------------------------------------------------------------------------------------------------
  z^7 - 7 z^6 + 21 z^5 - 35 z^4 + 35 z^3 - 21 z^2 + 7 z - 1

Sample time: 0.015 seconds
Discrete-time transfer function.
```

$\frac{A(z)}{E(z)}$ = zaeh(1) ... zaeh(8) / neun(1) ... neun(8)

$$A(z) \cdot \left[neun(1) \cdot z^7 + neun(2) \cdot z^6 + neun(3) \cdot z^5 + neun(4) \cdot z^4 + neun(5) \cdot z^3 + neun(6) \cdot z^2 + neun(7) \cdot z^1 + neun(8) \right]$$

$$= E(z) \cdot \left[zaeh(1) \cdot z^7 + zaeh(2) \cdot z^6 + zaeh(3) \cdot z^5 + zaeh(4) \cdot z^4 + zaeh(5) \cdot z^3 + zaeh(6) \cdot z^2 + zaeh(7) \cdot z^1 + zaeh(8) \cdot z^0 \right]$$

Basis: „7"

$$a(k) \cdot neun(1) + a(k-1) \cdot neun(2) + \ldots + a(k-7) \cdot neun(8)$$
$$= e(k) \cdot zaeh(1) + \ldots + e(k-7) \cdot zaeh(8)$$

$$a(k) = \Big[\big(e(k) \cdot zaeh(1) + \ldots + e(k-7) \cdot zaeh(8) \big) - \big(a(k-1) \cdot neun(2) + \ldots + a(k-7) \cdot neun(8) \big) \Big] \cdot \frac{1}{neun(1)}$$

---

delay ≈ 0,25s