





$$H(z) = \frac{z(z+1)}{(z-1)(z-0.25)(z-0.5)}$$

$$\downarrow \qquad \qquad \qquad R_1 = \frac{(1+1)}{(1-0.25)(1-0.5)}$$

$$\downarrow \qquad \qquad \qquad R_2 = \frac{(0.25+1)}{(0.25-1)(0.25-0.5)}$$

$$\downarrow \qquad \qquad \qquad \qquad R_3 = \frac{(0.5+1)}{(0.5-1)(0.5-0.25)}$$