

$$\begin{array}{r}
 z^3 - z \\
 \underline{z^2 + 1} \\
 z^2 - 1 \\
 \underline{2} \\
 2 - 2z^{-2} \\
 \underline{2z^{-2}} \\
 2z^{-2} - 2z^{-4} \\
 \underline{2z^{-4}}
 \end{array}
 \Rightarrow$$

k	x(k)	y(k)
0	1	0
1	0	1
2	1	0
3	0	2
4	0	0
5	0	2

~~BISA dgn~~

* Dengan Pers. Difference

$$G(z) = \frac{Y(z)}{X(z)} = \frac{z}{z^2 - 1} = \frac{z^{-1}}{1 - z^{-2}}$$

$$\text{Kali silang} = (1 - z^{-2})Y(z) = z^{-1}X(z)$$

$$Y(z) = z^{-1}X(z) + z^{-2}Y(z)$$

Pers. Dif = $y(k) = x(k-1) + y(k-2)$

k	x(k)	y(k)
0	1	0
1	0	1
2	1	0
3	0	2
4	0	0
5	0	2