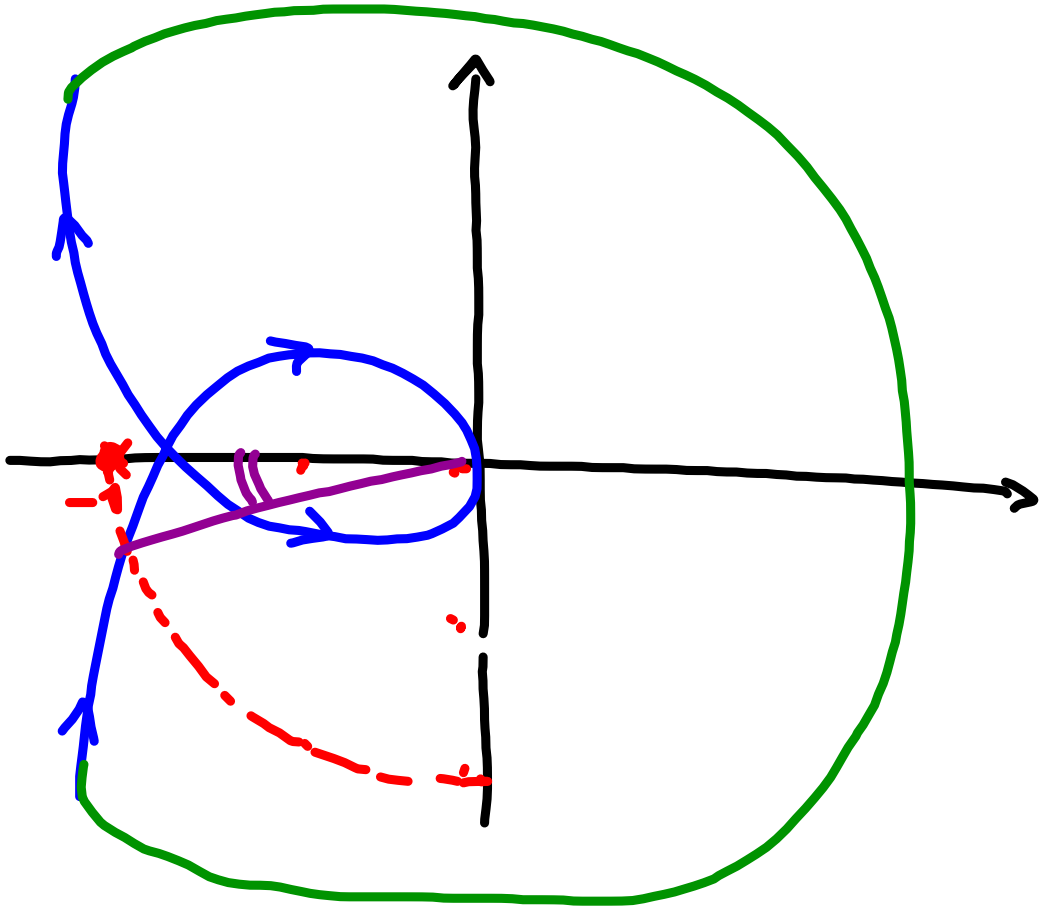
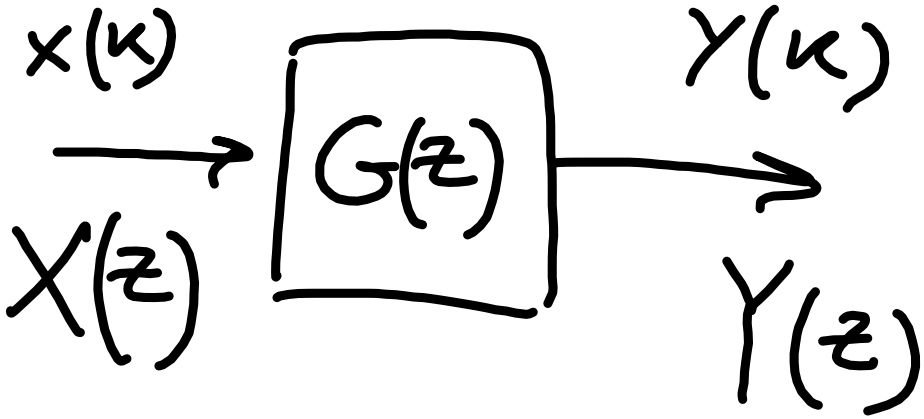
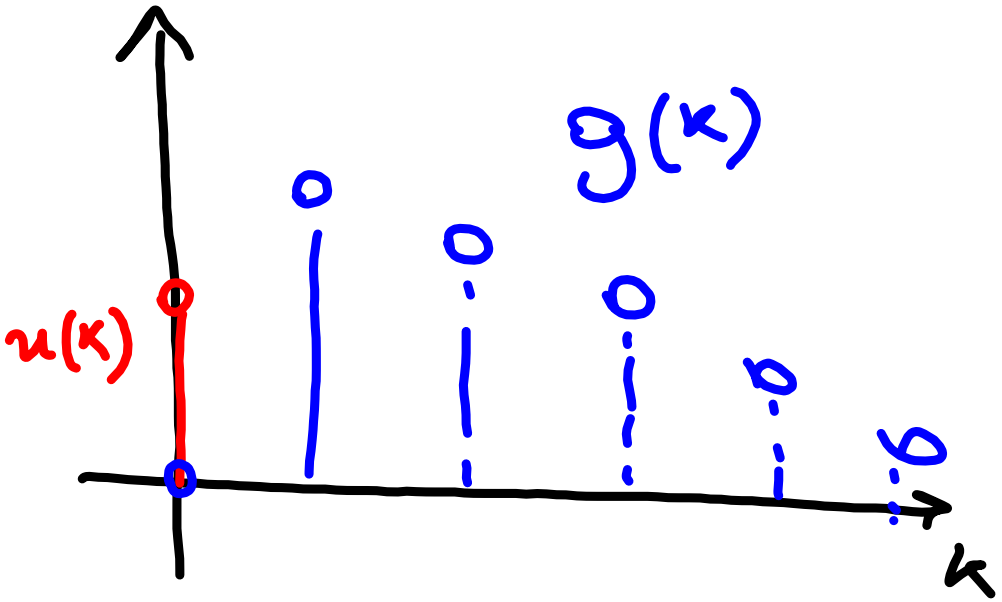




$$G(z) = \frac{Y(z)}{X(z)} = 1 \equiv Y(z)$$


g(k)
u(k)
k

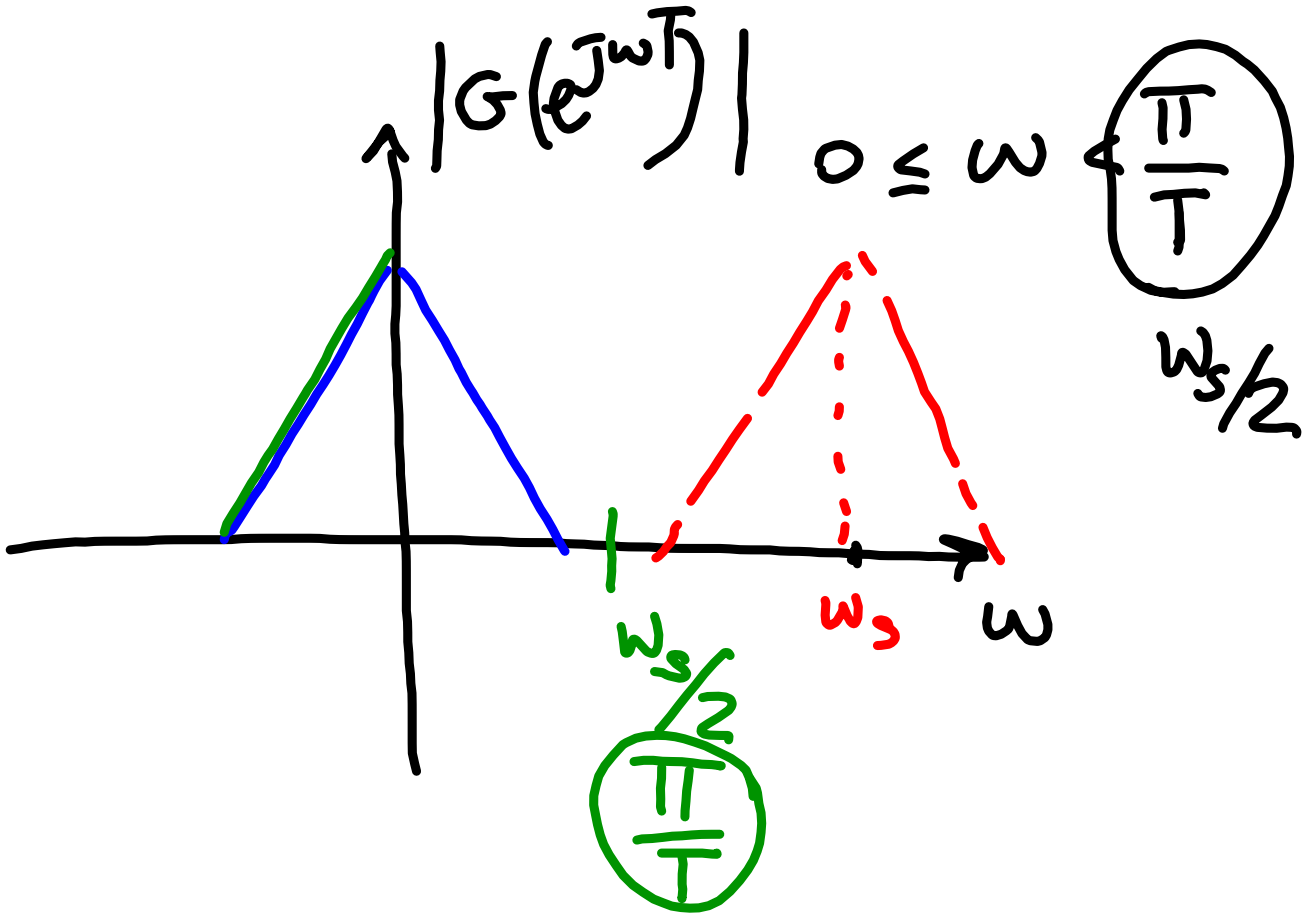
$$y(k) = \sum_{h=0}^{+\infty} g(k-h)\, x(h)$$

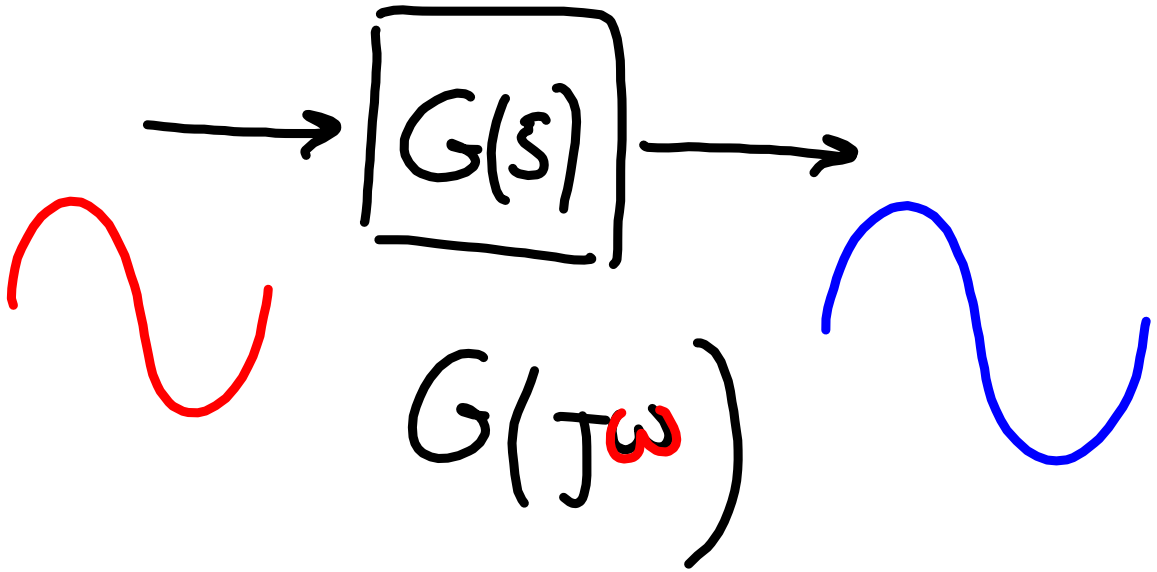
$$Z[y(k)] = Z[g(k) * x(k)]$$

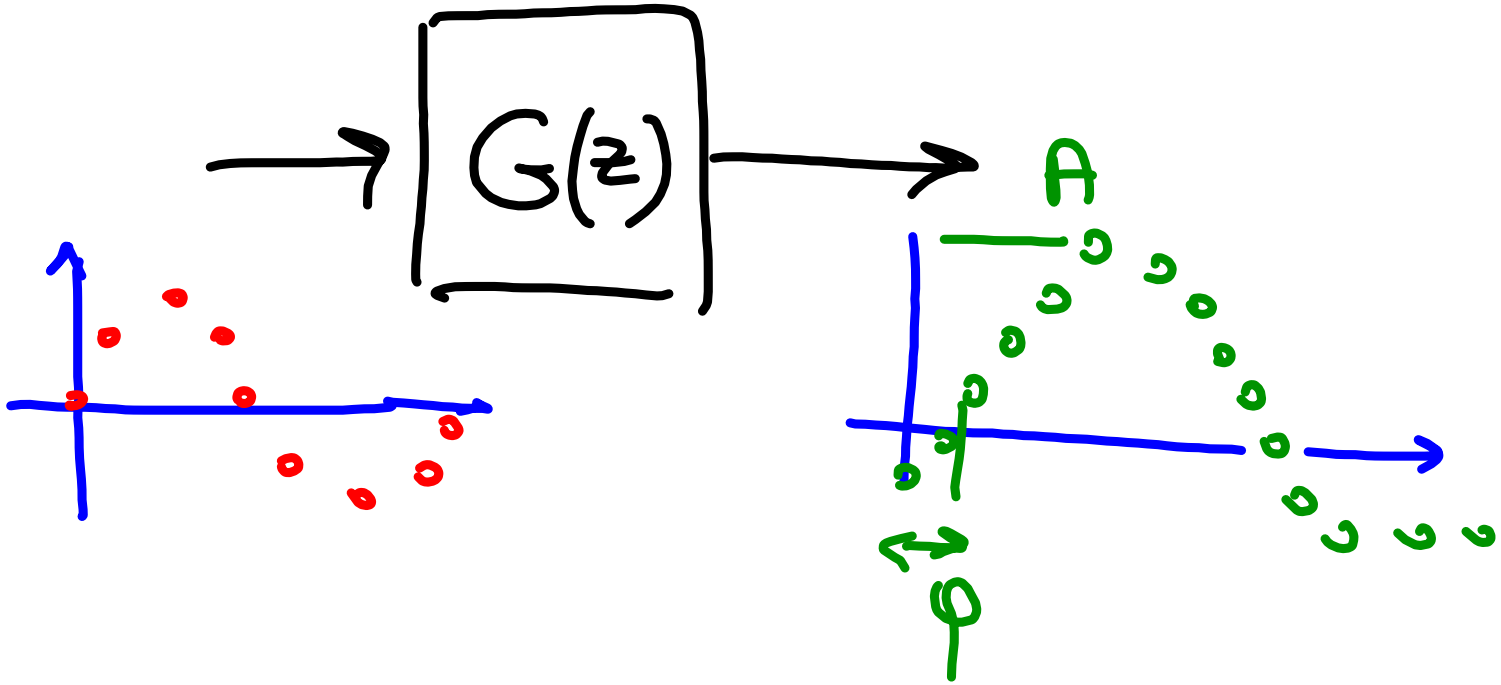
$$Y(z) = G(z) \cdot X(z)$$

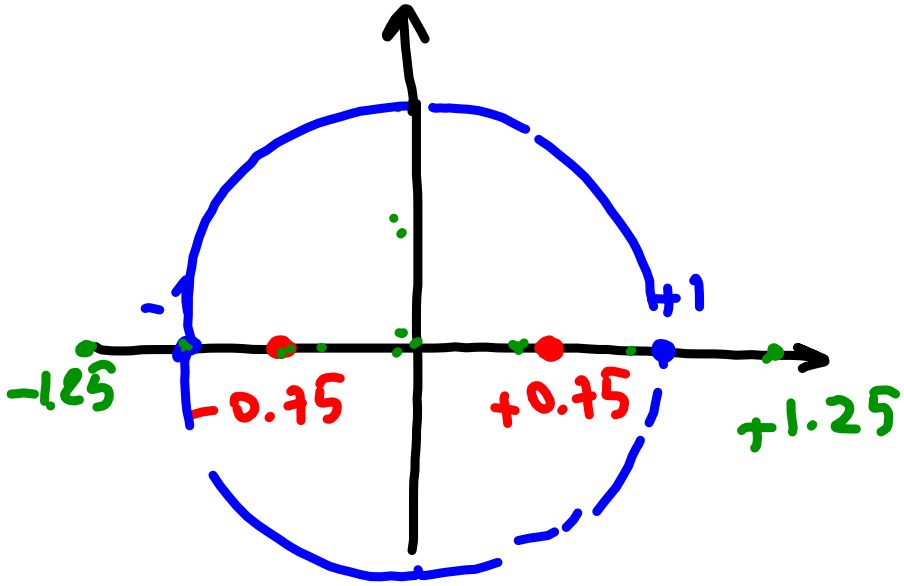
$$G(s)\Big|_{s=j\omega} = G(j\omega)$$

$$G(z)\Big|_{z=e^{sT}}\Big|_{s=j\omega} \equiv G(e^{j\omega T})$$


$|G(e^{j\omega T})|$
$0 \le \omega < \frac{\pi}{T}$
$\omega_s/2$
ω_s
ω
$\omega_s/2$
$\frac{\pi}{T}$


G(s)
G(jω)


G(z)
A
φ


-1
+1
-1.25
-0.75
+0.75
+1.25