P.61,62,65 P90,91 140 onwords ((hapter 11)

$$= \frac{Z}{(Z+i)(Z-i)} = \frac{A}{Z+i} + \frac{B}{Z-i}$$

$$\frac{1}{2+i} = \frac{1}{2+i+1-1}$$

$$\frac{1}{2i}$$

If f has a simple pole
$$0.20$$
, g analytic $\frac{1}{20}$

Res $\left(\frac{f}{g}; Z_0\right) = \frac{1}{g(Z_0)} \operatorname{Res}(f, Z_0)$

g has simple Zero à Zo,