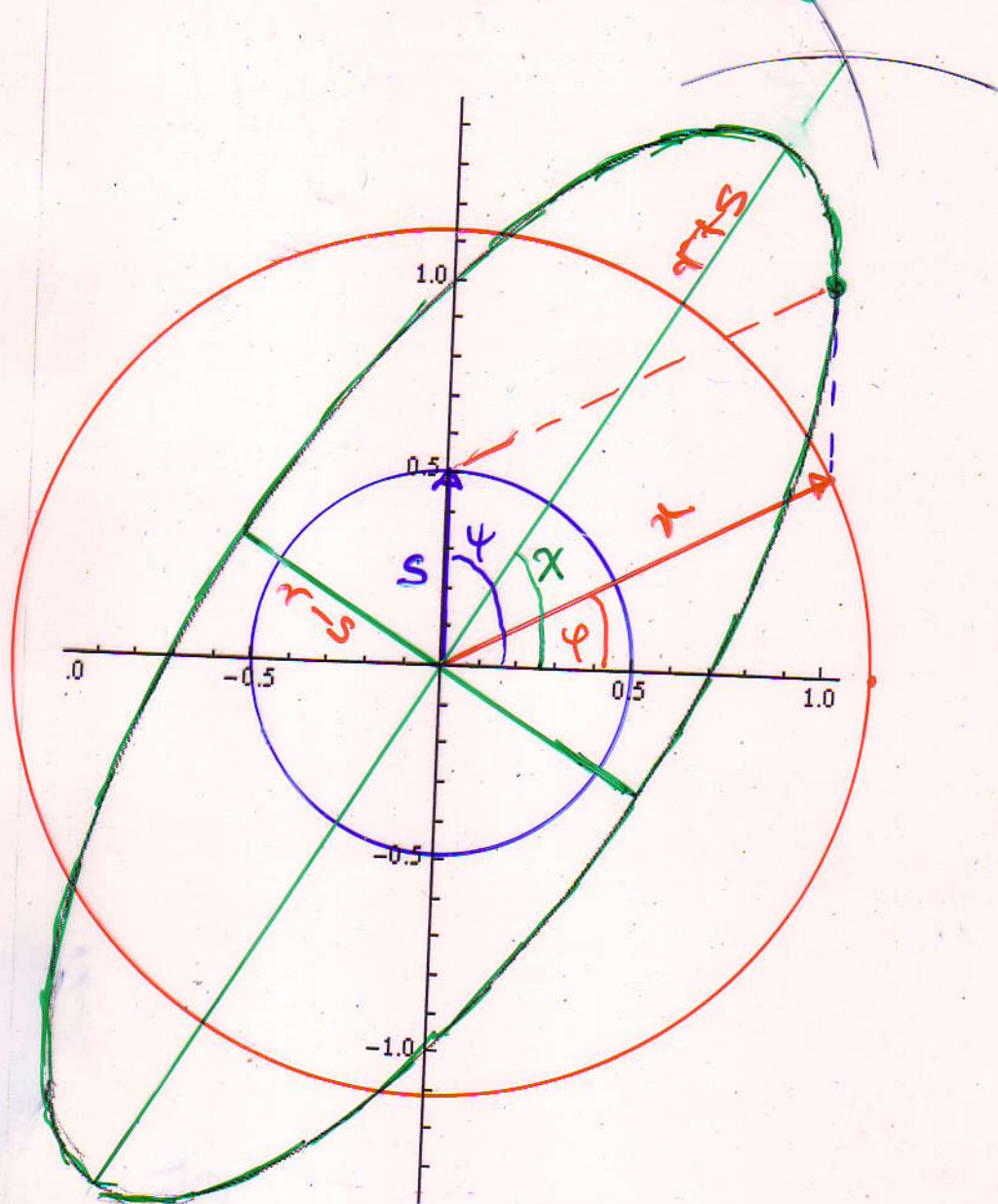


$$f(t) = (1+j)\cos t + j\sin t$$



$$\begin{aligned}
 f(t) &= r e^{j(t+\varphi)} + s e^{-j(t-\psi)} \\
 &= (a+bj)(\cos t + j\sin t) + (c+jd)(\cos -t + j\sin -t) \\
 &= (a+c + (b+d)j)\cos t + (-b+d + (a-c)j)\sin t
 \end{aligned}$$

$$\begin{aligned}
 a+c=1 \quad b+d=1 \quad a=1, b=\frac{1}{2}, r=\frac{\sqrt{5}}{2}, \varphi=\arctan \frac{1}{2} \\
 -b+d=0 \quad a-c=1 \quad c=0, d=\frac{1}{2}, s=\frac{1}{2}, \psi=\frac{\pi}{2}
 \end{aligned}$$

$$\frac{1}{2}(\psi - \varphi) \equiv \frac{1}{2}(\frac{\pi}{2} + \arctan \frac{1}{2}) \pmod{\pi}$$