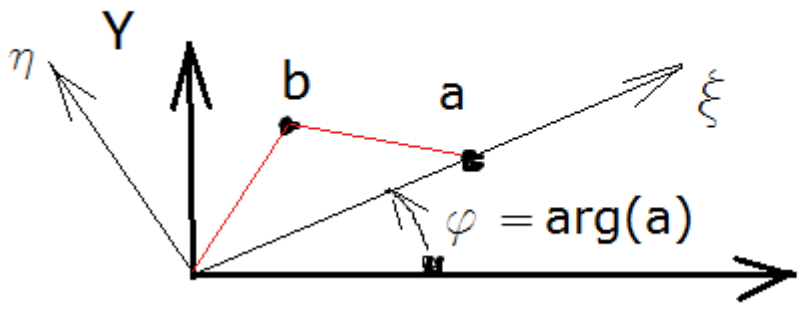
В. Лишков

Лице на триъгълник

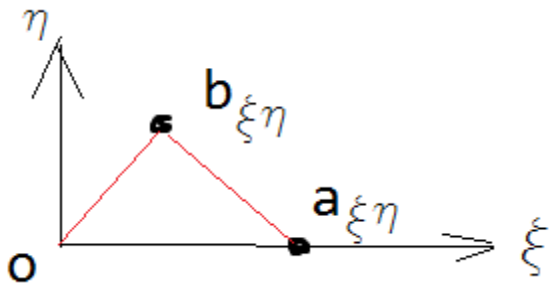
изразено чрез комплексните стойности на върховете му



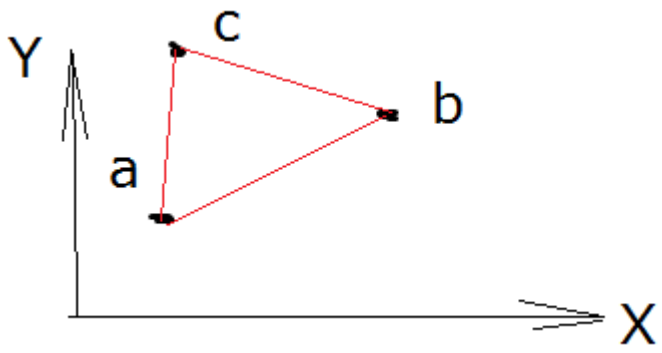
$$a_{\xi\eta} = |a_{xy}|$$

$$b_{\xi\eta} = \frac{b_{xy}}{e^{i\varphi}}$$

$$\varphi = arg(a)$$



$$S = \frac{|a_{\xi\eta}|.|(b_{\xi\eta} - \overline{b_{\xi\eta}})/2|}{2} = \frac{|a_{\xi\eta}|.|b_{\xi\eta} - \overline{b_{\xi\eta}}|}{4} = |a_{\xi\eta}|.\frac{Img(b_{\xi\eta})}{2}$$



$$S = \frac{|b-a|.|c' - \overline{c'}|}{4} = 0.5.\begin{vmatrix} Re(a) & Im(a) & 1 \\ Re(b) & Im(b) & 1 \\ Re(c) & Im(c) & 1 \end{vmatrix}$$

$$c' = \frac{(c-a)}{e^{i.arg(b-a)}}$$

$$Re(c' - \overline{c'}) = 0$$