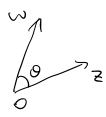
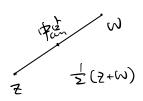
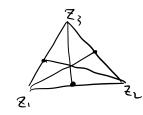
W1L2

Some Review.

Complex plane

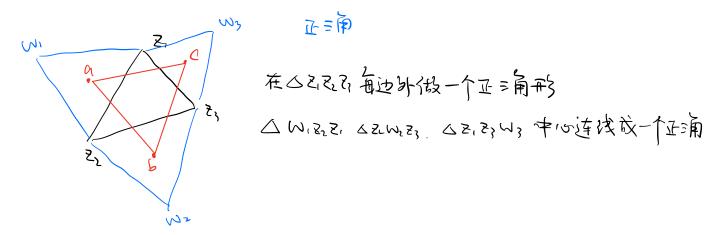


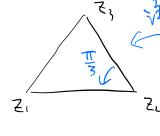




2.复数与几行

2.1. Napoleon Ete





$$\frac{Z_{3}}{Z_{3}} = e^{\frac{\pi}{3}}$$

$$\frac{Z_{1} - Z_{2}}{Z_{1} - Z_{3}} = e^{\frac{\pi}{3}}$$

$$\Rightarrow Z_{1} + W Z_{1} + \omega^{2} Z_{3} = 0$$

$$\Rightarrow Z_{1} - Z_{2} = e^{\frac{\pi}{3}}$$

$$\Rightarrow Z_{1} - Z_{2} = e^{\frac{\pi}{3}}$$

$$\Rightarrow Z_{1} - Z_{2} = e^{\frac{\pi}{3}}$$

$$\frac{3-5}{5-5}=6\frac{3}{4}$$

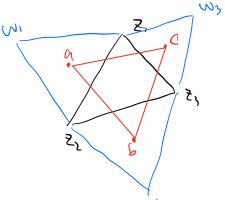
$$\Leftrightarrow$$
 $\xi_1 - \xi_2 = (\xi_3 - \xi_2) e^{\frac{\pi}{3}\hat{\lambda}}$

$$= \frac{1}{2} + (e^{\frac{\pi}{3}})^{2} - 1 = 0$$

$$= \frac{1}{2} + (e^{\frac{\pi}{3}})^{2} + (e^{\frac{\pi}{3}})^{2} = 0$$

$$\frac{\text{pf}}{2z + wwz + w^2z_3} = 0$$

$$\frac{2z + wwz + w^2z_3}{2z + w^2w_3} = 0$$

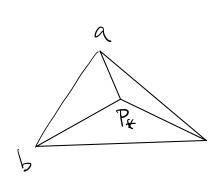


$$\sum_{i=1}^{n} (\omega_1 + z_1 + z_1) + (z_1 + \omega_2 + z_3) \omega + (z_1 + z_3 + \omega_3) \omega^2 = 0 \qquad \square$$

往内假三角也有美似结记

2.2. Ferment 问题

在山内部找一点,使其到三顶点距离和最小



(内南〈河)

Torricelli

⇒ P_{*}. S.+. P_{*}a. P_b. P_c 张南 120°, 距离和最小

存在:两个圆交一下, 耳喔一,

define: dcp) = |p-a| + |p-b| + |p-c| pec.

定理 (Ferment-Torricelli) 对任意PEC dup) > d(P*) = | a+wb+wc|, (沒山山山市<等) w=e等

 $'' = '' \iff \mathcal{P} = \mathcal{P}_{\star}$

野·P* a-P*、~(b-P*)、~(e-P*) 境南相同

dcp = | p-a(+(p-b)+ |p-c)

$$= |a+\omega b+wc| = dQ_*)$$

回边形情况?对南线支流、(五角不管武即可)

五边形情况?



2.3 Heron Lat

定理 设 △ABC 迎长与劉为 a.b.c 记 P= = (a+b+c) M △ABC局积

$$S = \int \frac{b(b-\omega)(b-p)(b-c)}{}$$

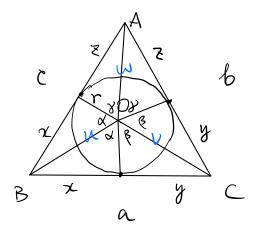
$$\begin{array}{c}
Pf. \\
y+y=a \\
y+z=b \\
x+z=c
\end{array}$$

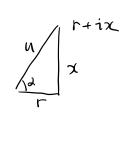
$$2+y+z=\frac{a+b+c}{2}$$

$$z=\frac{b+c-a}{2}=p-a$$

$$x=\frac{a+c-b}{2}=p-b$$

$$y=\frac{a+b-c}{2}=p-c$$



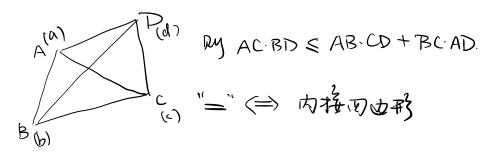


四边形面积公式? ---

注圆内接回边形。a.b. c.d. 面积 S=J(P-a)(P-b)(P-c)(p-d)
经复回出。回由形不确定,什么时候而积 mmx? (内接四边形)

24. P. Holomy-Enler Rt.

沒 ABCD 是平面内四边形 顶点递时针.



Pf. LHS = $|(\alpha - c)(b - d)|$ RHS = $|(\alpha - b)(c - d)| + |(b - c)(a - d)|$

 \sqrt{p} . (a-c)(b-d) = ab+cd-ad-bc (a-b)(c-d)+cb-c)(a-d) = ac+bd-bc-ad+ab-ac-bd+cd= ab+cd-bc-ad.

用三角なるむ

$$\frac{(a-d)(c-d)}{(b-c)(a-d)} \in \mathbb{R}_{+}$$

$$\frac{b-a}{d-a} \frac{d-c}{b-c} = \frac{AB \cdot cD}{AD \cdot Bc} \cdot e^{iT} \cdot e^{-iZA} e^{-iZC}$$

$$= \frac{AB \cdot cD}{AD \cdot Bc} e^{i(T-ZA-ZC)}$$

$$\mathbb{R} \iff T = ZA+CC$$

$$\cong \mathbb{R} \land \overline{A} = \mathbb{R}_{+}$$

Conclusion

工角电池、正确形。

- 2. 长春模长,为3闸三角不管式,转到图面?
- 3. 图形中的直角的形 一的性复数
- 4、模长的季報= 军般的模长.