

GEOMETRIA DIETRO LE QUINTE

Titolo nota

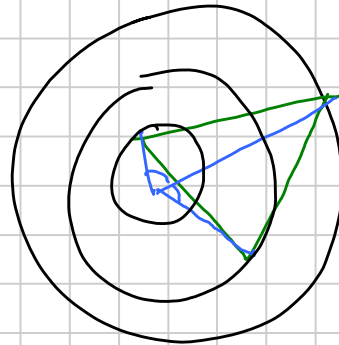
17/10/2017

Tentazione: Dare più contenuti

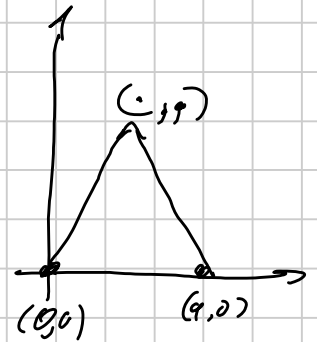
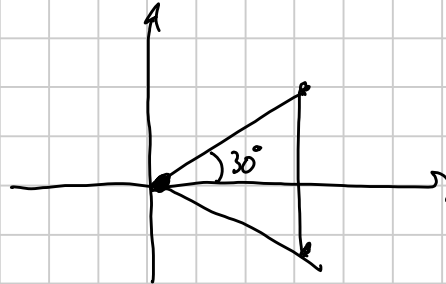
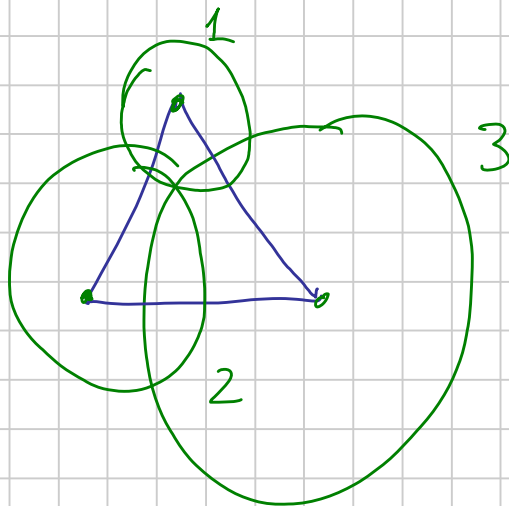
Es: Tre cerchi (circonferenze) di raggi 1, 2, 3 concentriche

Tri equilatero con un vertice in ognuna delle tre

Trovare a^3



$$\begin{cases} 5 - 4\cos(\alpha + \beta) = a^2 \\ 10 - 6\cos(\alpha) = a^2 \\ 13 - 12\cos(\beta) = a^2 \end{cases}$$



$$\int_0^1 \sqrt{1-x^2} dx$$

$$\sqrt{\quad} + \sqrt{\quad} - \sqrt{\quad} = ka^2$$

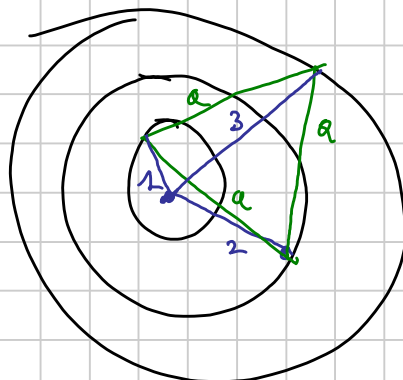
pol in a di grado 4

1) Sol. SACCENTE

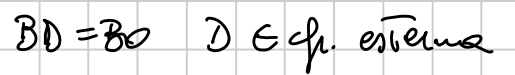
Teo di TOLOREO

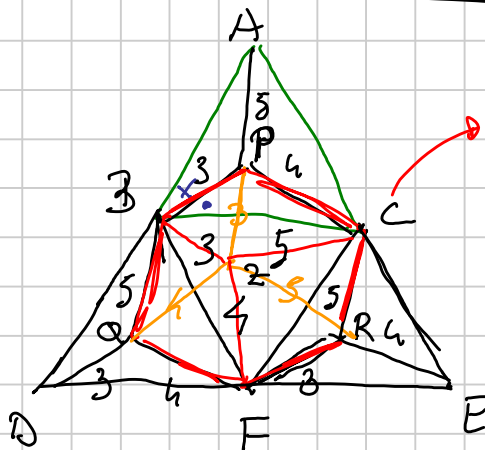
A, B, C, D sono su una
cir in quest'ordine

$$AB \cdot CD + AD \cdot BC = AC \cdot BD$$



$$1 \cdot a + 2 \cdot a = 3 \cdot a$$


$$\Downarrow$$

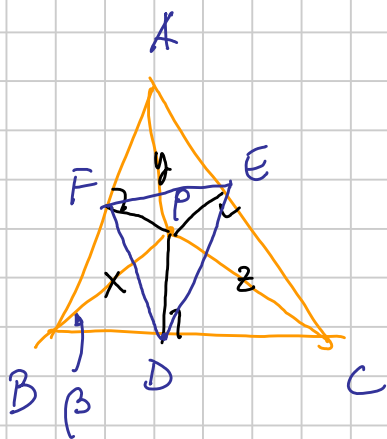
$$C \in \mathcal{T}$$
$$\begin{array}{l} A \rightarrow C \\ 0 \rightarrow 1 \end{array} \Rightarrow B \overset{\Delta}{\cap} A \cong B \overset{\Delta}{\cap} C$$
 $1+2=3 \Rightarrow D, C, O$ sind alle used.

3 tr: epur. 3, 4, 5
3 tr: rett. d. lati 3, 4, 5

$$\hat{A}BP + \hat{P}BC = 60^\circ$$

$$\hat{z}_B = A \hat{B} p$$

$$\Rightarrow \hat{\angle BP} = 60^\circ$$


$$DF = ?$$

BDPF w/ 2 angles RETN)

$\Downarrow$
BP $\downarrow$ metro $\Rightarrow 2R = x$

$$DF = x \cdot \sin(\beta) = x \cdot \frac{AC}{2p}$$

$$\sin \beta = \frac{AC}{2p}$$

$p =$ ~~agosto~~ ~~ch~~ ~~invernate~~

$\rho = \log 2$ ch
circonferenza
ad ABC

$$BF = x - \frac{AC}{2}$$

$$DE = 2 \cdot \frac{BA}{2p}$$

$$EF = y \cdot \frac{BC}{2y}$$

$$D\bar{r} = \frac{a}{2f} \quad D\bar{E} = \frac{2a}{2f} \quad E\bar{r} = \frac{3a}{2f}$$

D, E, F all: meso

In generale, ABC triangolo, $P \in$ circonferenza circoscritta

$\Downarrow$
 le sue proiezz. sui lati sono allineate.

$\overset{\cdot}{A}$
 A

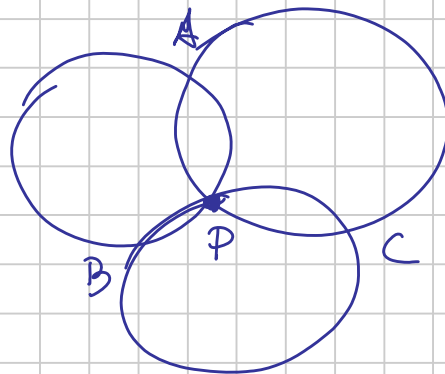
$\overset{\cdot}{B}$
 B

$$P \text{ t.c. } PA = 2$$

$$PB = 1$$

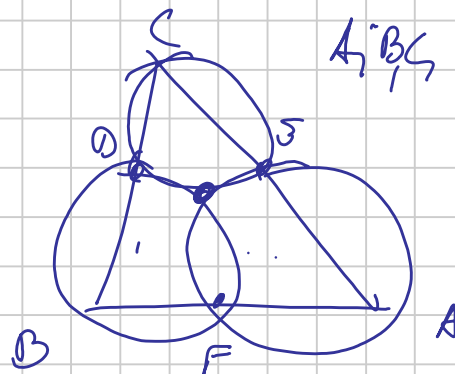
$$P \text{ t.c. } \frac{PA}{PB} = 2$$

$$PA^2 = 4 PB^2$$



3 cf. uguali per P

$\Rightarrow$ la circ. per A, B, C
 ha lo stesso raggio



$\triangle ABC$

D, E, F
 no centri

che per

D, E, C

H, E, F

B, F, D

Concurrence