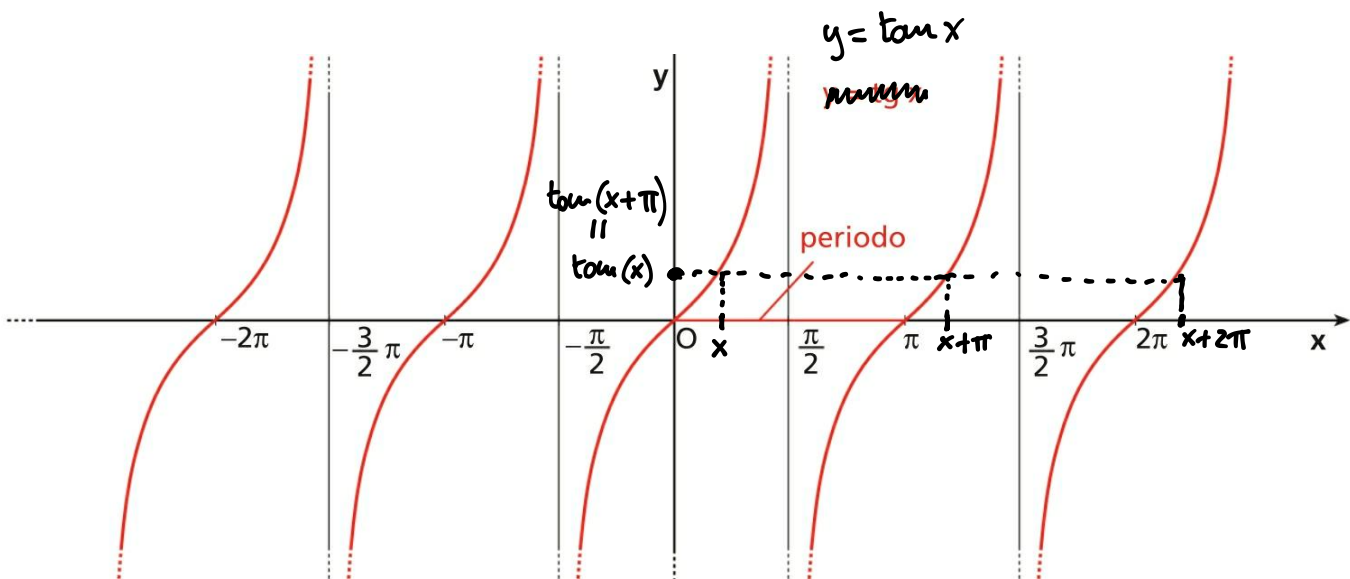
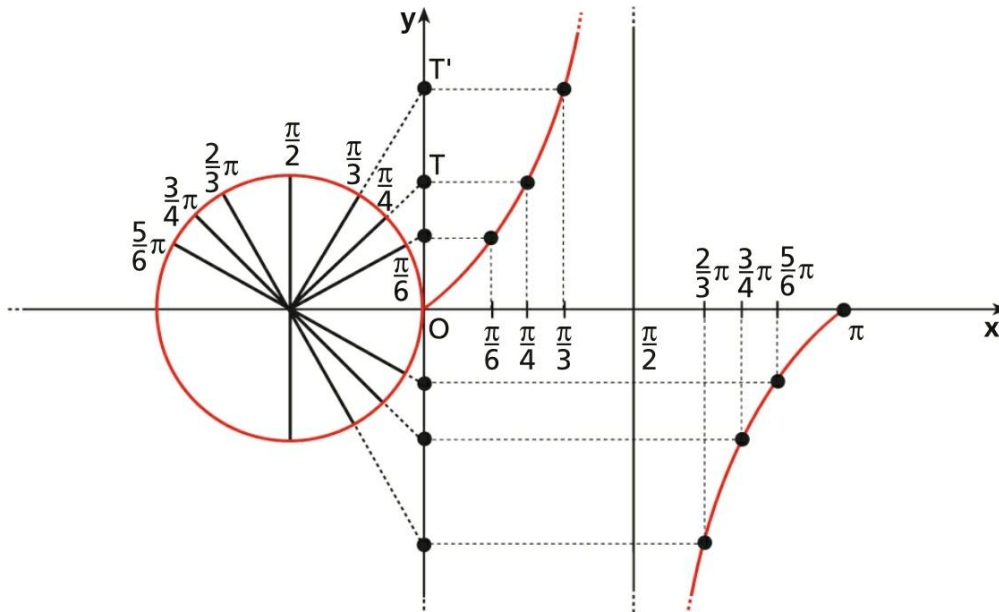
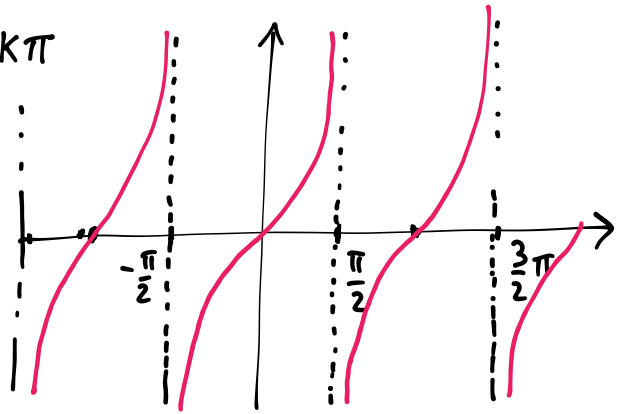
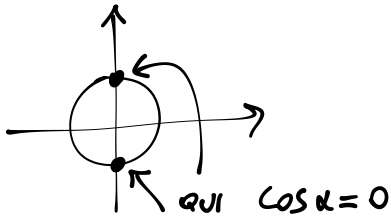


20/4/2018

TANGENTE GONIOMETRICA

$$\tan \alpha = \frac{\sin \alpha}{\cos \alpha}$$

$$\alpha \neq \frac{\pi}{2} + K\pi$$



$$\tan(\alpha + K\pi) = \tan \alpha$$

VALORI DELLA TANGENTE

α°	$\alpha (\text{Rad})$	$\sin \alpha$	$\cos \alpha$	$\tan \alpha = \frac{\sin \alpha}{\cos \alpha}$
0°	0	0	1	0
45°	$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1
30°	$\frac{\pi}{6}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$
60°	$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
90°	$\frac{\pi}{2}$	1	0	NON ESISTE
180°	π	0	-1	0
270°	$\frac{3}{2}\pi$	-1	0	NON ESISTE
360°	2π	0	1	0

18. 520

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$$3 \operatorname{tg} 0^\circ + 4 \cos 30^\circ \operatorname{sen} 60^\circ - \sqrt{2} \cos 45^\circ - 6 \operatorname{sen} 90^\circ =$$

$$= 3 \cdot 0 + 4 \cdot \frac{\sqrt{3}}{2} \cdot \frac{\sqrt{3}}{2} - \sqrt{2} \cdot \frac{\sqrt{2}}{2} - 6 \cdot 1 =$$

$$= 3 - 1 - 6 = -4$$

PER GLI ALTRI ESERCIZI

COTANGENTE DI α

$$\boxed{\cot \alpha = \frac{\cos \alpha}{\sin \alpha}} \quad \alpha \neq k\pi$$

$$\boxed{\cot \alpha = \frac{1}{\tan \alpha}} \quad \alpha \neq k\frac{\pi}{2}$$

SECANTE DI α

$$\boxed{\sec \alpha = \frac{1}{\cos \alpha}} \quad \alpha \neq \frac{\pi}{2} + k\pi$$

COSSECANTE DI α

$$\boxed{\operatorname{cosec} \alpha = \frac{1}{\sin \alpha}} \quad \alpha \neq k\pi$$

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$$4 \operatorname{sen} 30^\circ - \sec 60^\circ + \sqrt{2} \operatorname{cosec} 45^\circ + \cos 90^\circ - 3 \sec 0^\circ + \cotg 45^\circ =$$

$$= 4 \cdot \frac{1}{2} - \frac{1}{\cos 60^\circ} + \sqrt{2} \cdot \frac{1}{\sin 45^\circ} + 0 - 3 \cdot \frac{1}{\cos 0^\circ} + \frac{\cos 45^\circ}{\sin 45^\circ} =$$