



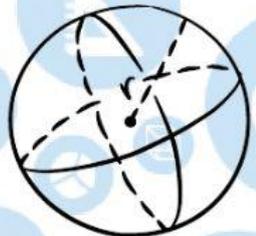
Matemática

TUTOR: MARIO ERNESTO ROSALES

LECCIÓN 2

SEGUNDO AÑO

M4

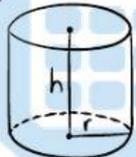


$$\frac{a}{b} + \frac{x}{y} = 1$$

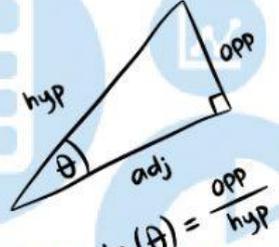
$$S = \frac{1}{2} a \times h$$
$$V = \frac{4}{3} \pi r^3$$

$$X = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



$$V = \pi r^2 h$$



$$\sin(\theta) = \frac{\text{opp}}{\text{hyp}}$$

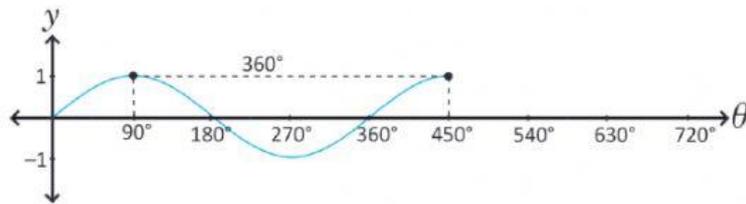
Nombre: _____

Sección: _____

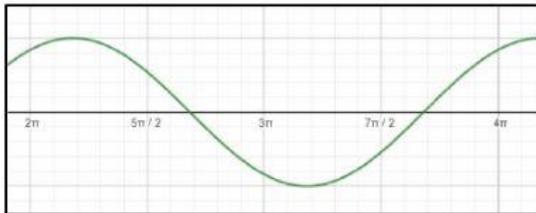
01 Función seno

Problemas

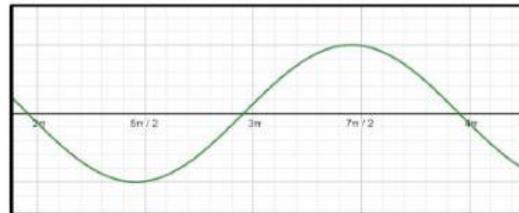
1. La siguiente figura muestra la función seno graficada en el intervalo $[0^\circ, 450^\circ]$. Utiliza la periodicidad de la función para completar la gráfica hasta el ángulo 720° y seleccione la respuesta correcta. Recuerde que $2\pi = 360^\circ$; $5\pi/2 = 450^\circ$; $3\pi = 630^\circ$...



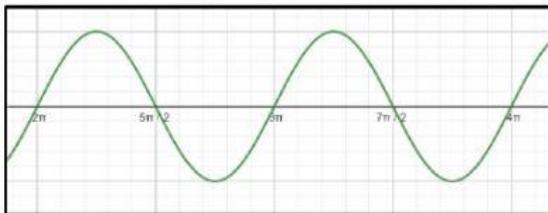
R/ _____



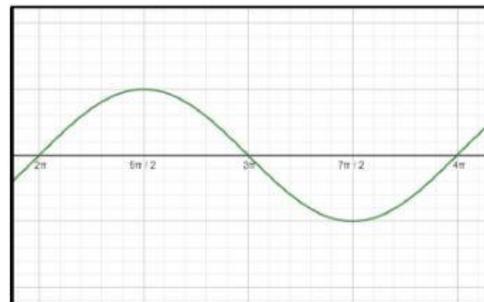
a)



b)



c)

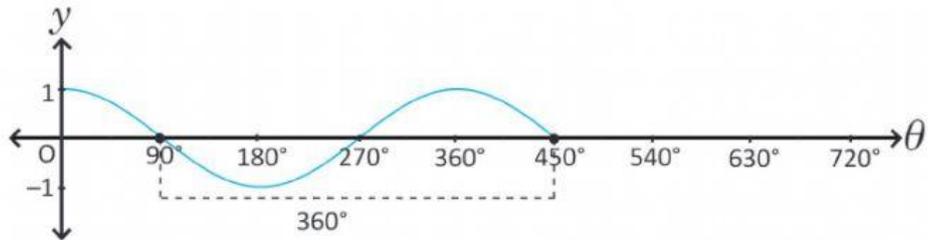


d)

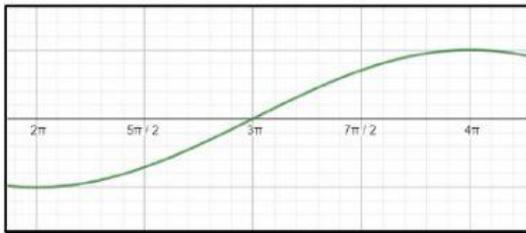
02 Función coseno

Problemas

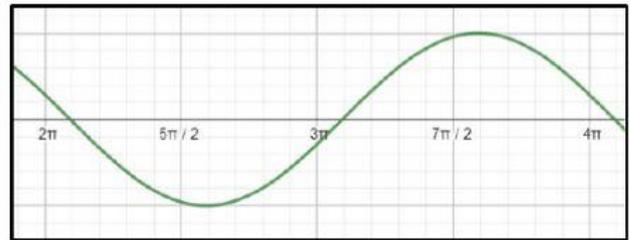
1. La siguiente figura muestra la función coseno graficada en el intervalo $[0^\circ, 450^\circ]$. Utiliza la periodicidad de la función para completar la gráfica hasta el ángulo 720° y seleccione la respuesta correcta. Recuerde que $2\pi = 360^\circ$; $5\pi/2 = 450^\circ$; $3\pi = 630^\circ$...



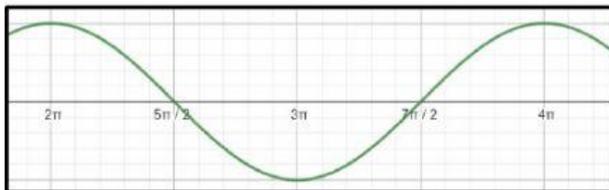
R/ _____



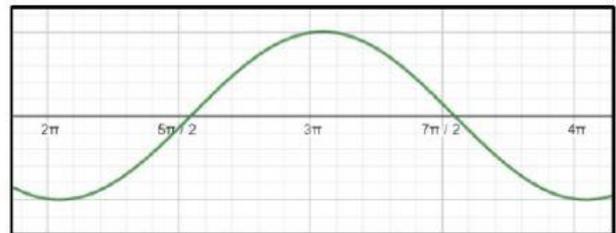
a)



b)



c)



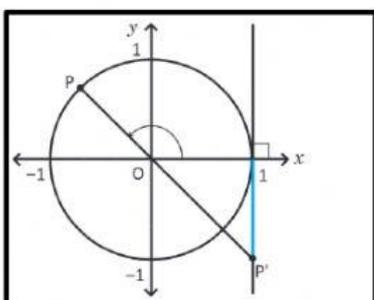
d)

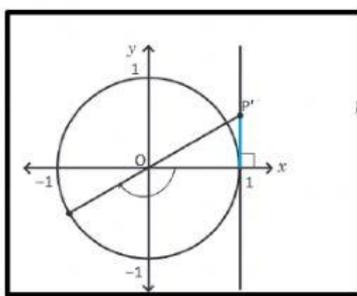
08 Razones trigonométricas de cualquier ángulo, parte 2

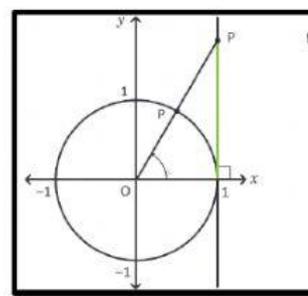
Problemas

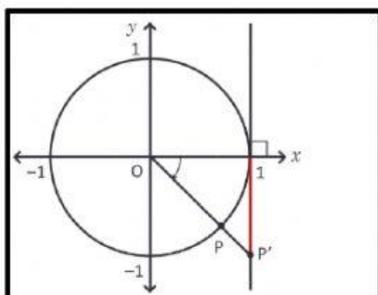
1. Traslade el literal correspondiente a la figura que representa el valor de la tangente de los siguientes ángulos.

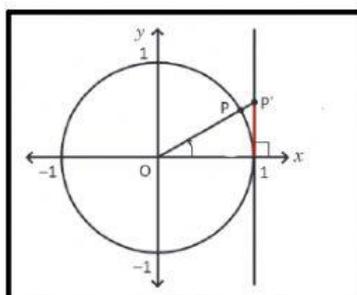
- a) $\theta = 30^\circ$
- b) $\theta = 60^\circ$
- c) $\theta = 135^\circ$
- d) $\theta = -45^\circ$
- e) $\theta = -120^\circ$
- f) $\theta = -150^\circ$

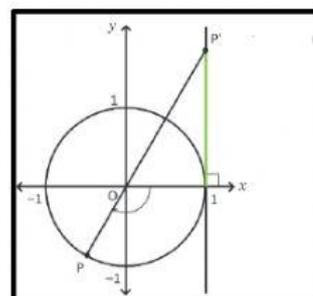










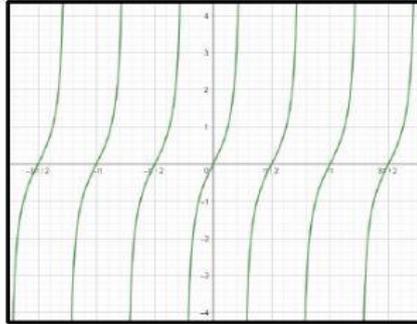


04 Gráfica de la función tangente

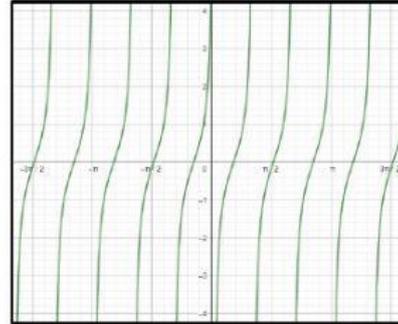
Problemas

1. Utiliza la periodicidad de la tangente para graficar la función $f(\theta) = \tan \theta$ en el intervalo $]-270^\circ, 270^\circ[$ y seleccione la respuesta correcta. Recuerde que $3\pi/2 = 270^\circ$; $\pi/2 = 90^\circ$; $\pi = 90^\circ \dots$

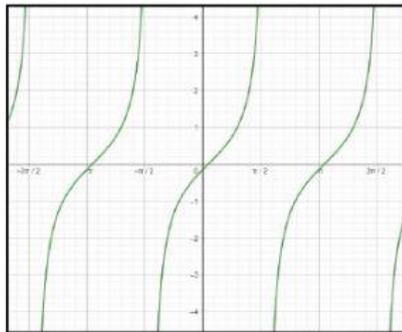
R/ _____



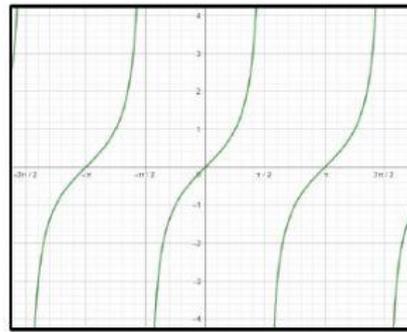
a)



b)



c)



d)