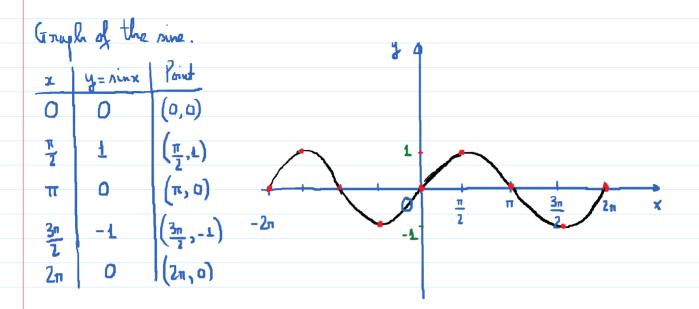
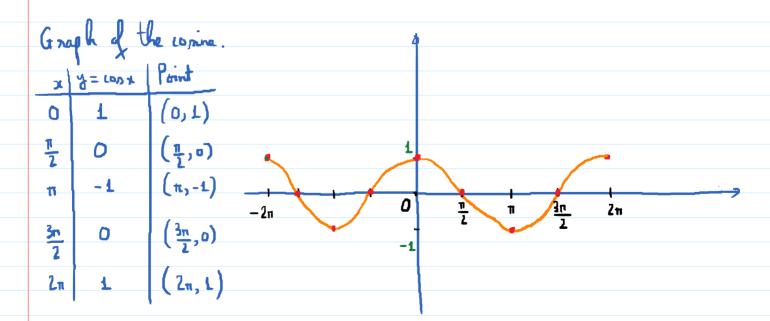
4.1. Graph of the rive and the corne function Monday, February 24, 2020 9:33 AM



Sine function is periodic with period 271.

In 1-cycle: Sine partem: intercept - max - intercept - minimum - intercept

Domain = (-00,00); Range = [-1,1]. Period = 271.



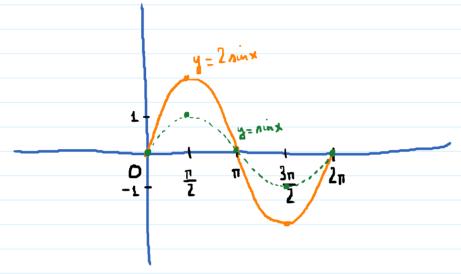
Comme is periodic with period 27.

In 1-cycle: max-intercept-min-intercept-max

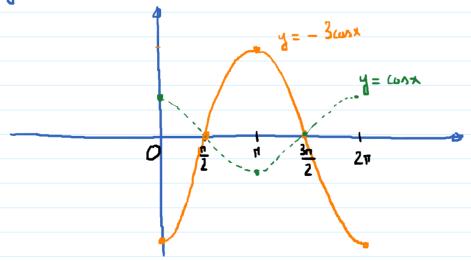
Domin = (-00,00); Rung = [-1,1]; Period = 27.

Graph of the form y = a rinx on of = acorx.

E.g. y = 2 sin x. Graph in one - period.

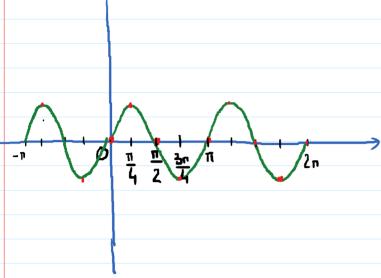


y = -3 cosx



Graphs of the form: $y = \sin(bx)$ on $y = \cos(bx)$ E.g. $y = \sin(2x)$

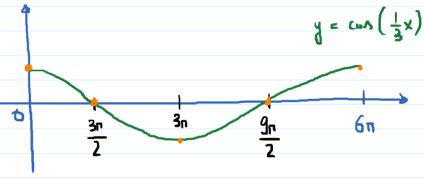
$$2x = 2\pi \rightarrow x = \pi$$



Graph
$$y = cos(\frac{1}{3}x)$$
 in one-period

$$\frac{1}{3}x = 0 \rightarrow x = 0$$

$$\frac{1}{3} \times = 2n \rightarrow \times = 6n$$

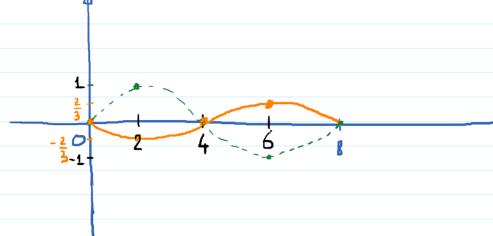


E.g. Graph
$$y = -\frac{2}{3} \sin \left(\frac{\pi}{4} x\right)$$

$$\frac{\pi}{4} \star = 0$$

$$\frac{\pi}{4}x \leq 2\pi$$

$$x = \frac{2_{11}}{\frac{\pi}{4}} = \frac{2_{11}}{\frac{\pi}{4}} = \frac{2}{1} \cdot \frac{4}{1} = \frac{8}{1}$$



Period =
$$\frac{2\eta}{b}$$
; Amplifude = |a|