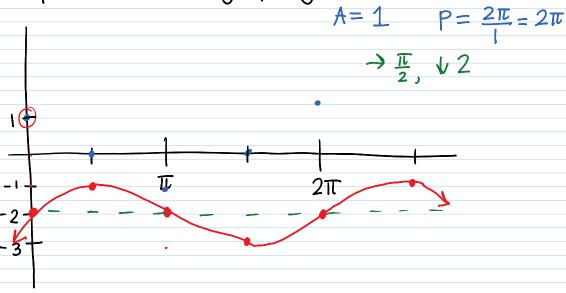
More Transformations1

Openerl

Sketch one period of the graph $y = \cos(x - \frac{\pi}{2}) - 2$



Reflections

$$y = -a sinb(x-h)+k$$
, $y = -a cosb(x-h)+k$

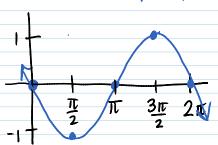
when a is negative: flips over the x-axis

*NOTE: the amplitude is still positive & will always be!! * Amplitude = |a|

② Period: $\frac{2\pi}{1} = 2\pi$

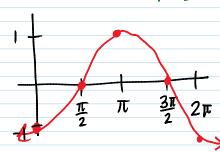
3+ransformations > flip over the x-axis

Graph!

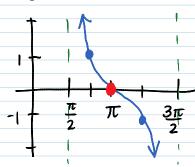


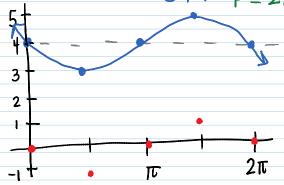
$$2y = -\cos x \quad A = 1$$

$$P = 2\pi$$

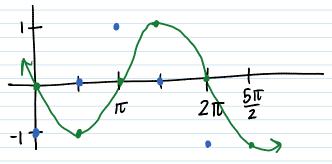


$$3y = -\tan x \frac{\pi}{b} = \pi$$





(5)
$$y = -\cos(x - \frac{\pi}{2})$$
 (1) FLIP $A = 1$
(2) $\Rightarrow \frac{\pi}{2}$ $P = 2\pi$



6
$$y = -2\cos 4(x + \frac{\pi}{4})$$
 0 FLIP $A = 2$ 0 $e^{\frac{\pi}{4}}$ $P = \frac{2\pi}{4} = \frac{\pi}{2}$

