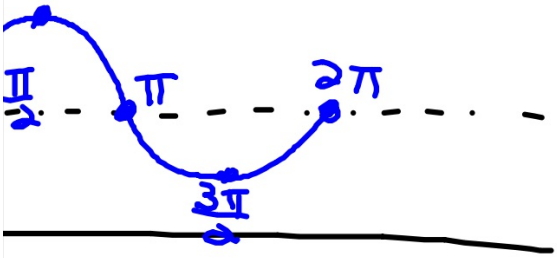
- sin $\theta + 2$



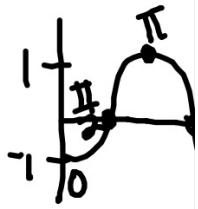
iption of change: U2

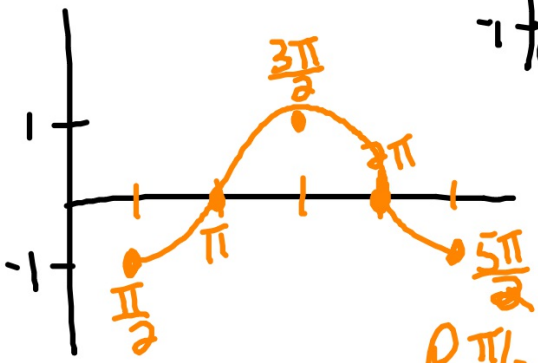
l: 2π Amp: 1 Asym: none

s: (0, 2)(π/2, 3)(π, 2)(3π/2, 1)(2π, 2)

2. y = - cos (θ - 90)

$y = -\cos(\theta - \pi/2)$



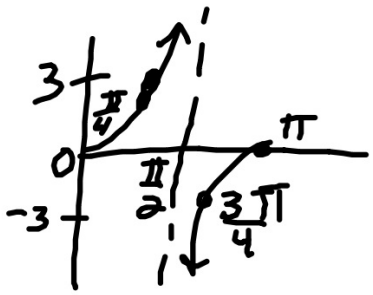


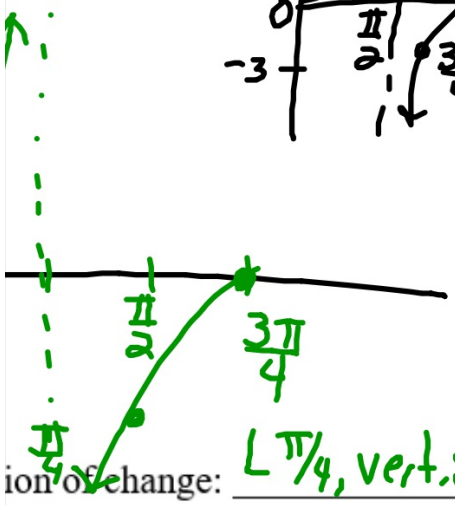
Description of change: R π/2, Refl. x

Period: 2π Amp: 1 Asym: n

pts: (π/2, -1)(π, 0)(3π/2, 1)
(2π, 0)(5π/2, -1)

tan $\left(\theta+\frac{\pi}{4}\right)$



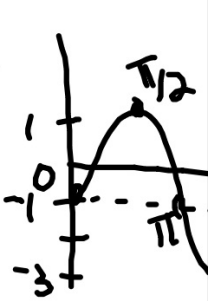


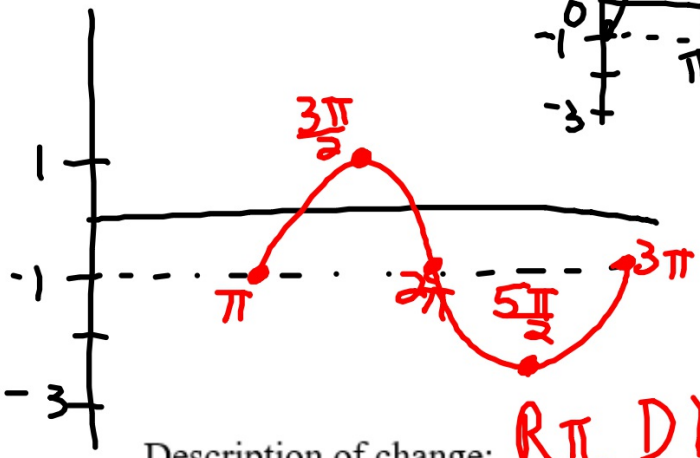
ion of change: L π/4, vert. stretch

π Amp: none Asym: π/4

(-π/4, 0) (0, 3) (π/2, -3) (3π/4, 0)

4. $y = 2 \sin(\theta - \cancel{180}\ \pi) - 1$





Description of change: R π, D 1

Period: 2π Amp: 2 Asym:

pts: (π, -1) (3π/2, 1) (2π, -1) (5π/2, -

(3π, -1)

5) $y = 3\sin(2\theta + \pi) - 1$

$y = 3\sin\left(2\left(\theta + \frac{\pi}{2}\right)\right) - 1$

Amp: 3 Chgs: D1, L $\pi/2$

Pd: π Asm: none

Pts: $\left(-\frac{\pi}{2}, -1\right)\left(-\frac{\pi}{4}, 2\right)\left(0, -1\right)\left(\frac{\pi}{4}, -4\right)$

$\left(\frac{\pi}{2}, -1\right)$