$3\left(\theta - \frac{\pi}{6}\right)$

$y = -4\cos\left(3\theta - \frac{\pi}{2}\right)$

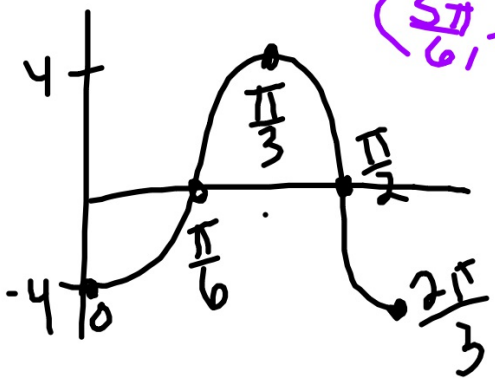
Amp: 4

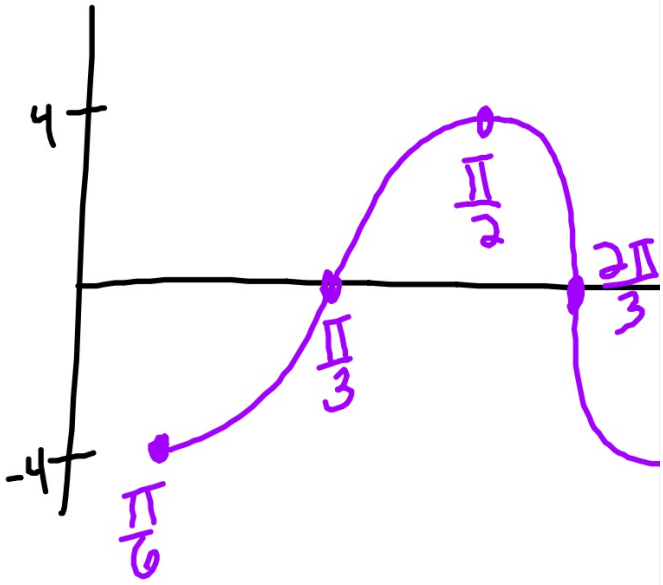
Chgs: Refl. x-axis
R $\pi/6$

Pd: $\frac{2\pi}{3}$

Asm: none

Pts: $\left(\frac{\pi}{6}, -4\right)\left(\frac{\pi}{3}, 0\right)\left(\frac{\pi}{2}, 4\right)\left(\frac{2\pi}{3}, 0\right)$
$\left(\frac{5\pi}{6}, -4\right)$





329 # 39-47 odd, 53

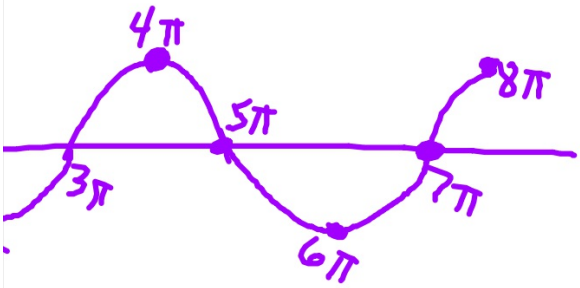
329 # 63-69 odd

39 # 2, 7, 9, 22, 24

$y = \cos \frac{1}{2}\theta$

mp: 1 Chgs: none

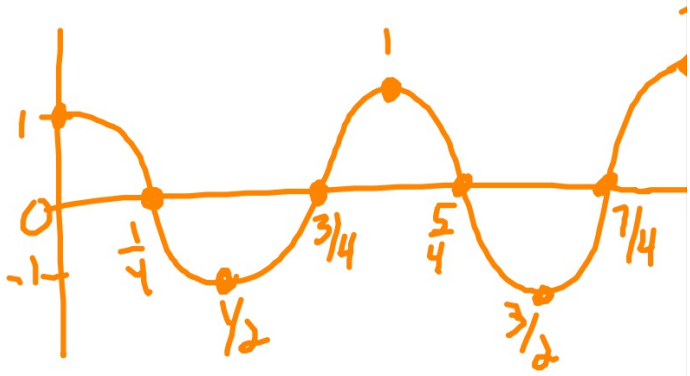
s: 4π Asm: none



41 $y = \cos 2\pi\theta$

Amp: 1 Chgs: none

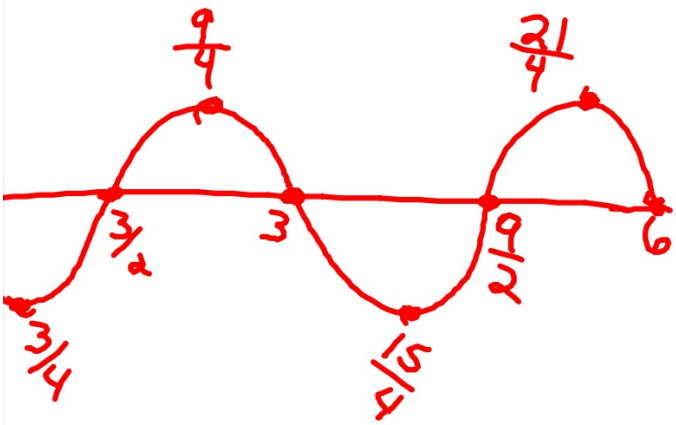
ps: 1 Asm: none



$= -\sin \frac{2\pi}{3}\theta$

p: 1 Chgs: Refl. x-axis

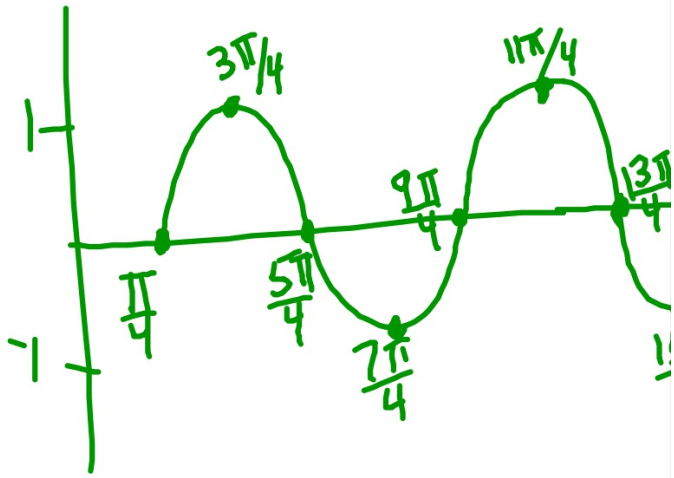
: 3 Asm: none



45 $y = \sin(\theta - \pi/4)$

Amp: 1 Chgs: R $\pi/4$

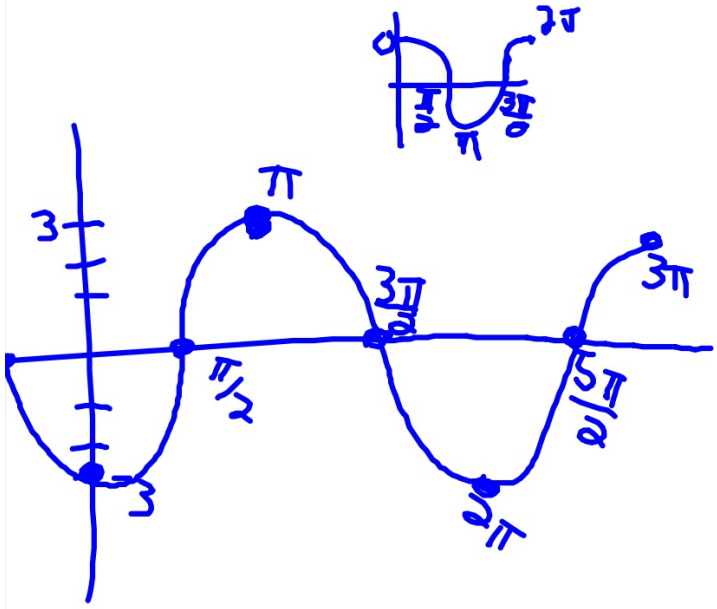
Pd: 2π Asm: none



$y = 3\cos(\theta + \pi)$

Amp: 3 Chgs: $L\pi$

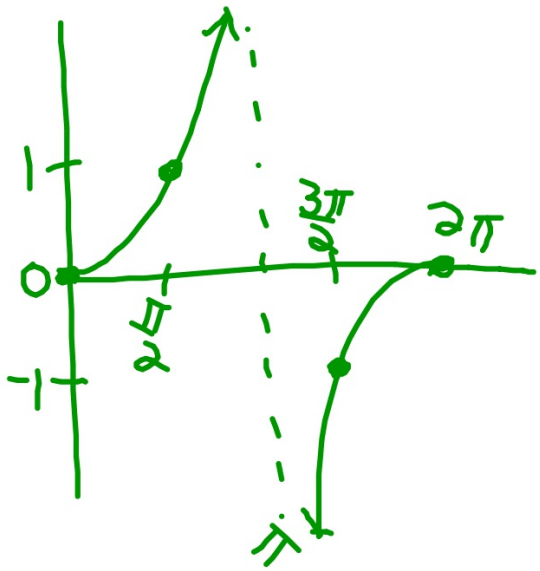
Pd: 2π Asm: none



② $y = \tan \frac{1}{2}\theta$

Amp: none Chgs: none

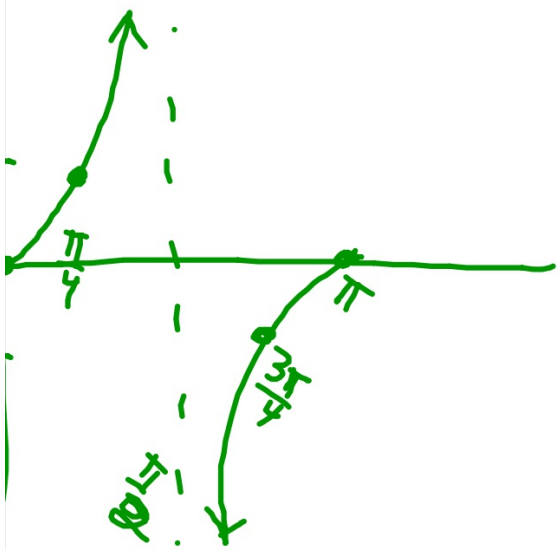
Pd: 2π Asm: π



$y = \frac{1}{3}\tan\theta$

p: none Chgs: vert. shrink

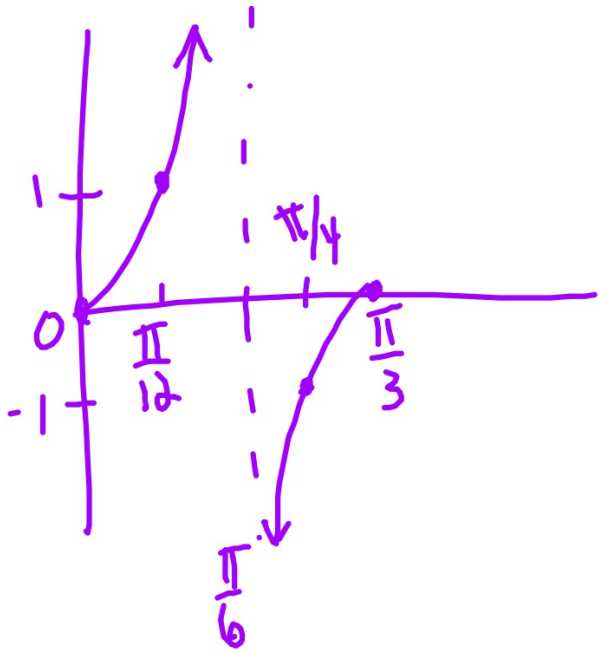
: π Asm: $\pi/2$



⑨ $y = \tan 3\theta$

Amp: none Chgs: none

Pd: $\pi/3$ Asm: $\pi/6$



329 # 40-48 even, 54

64-70 even

339 # 31, 32, 35