

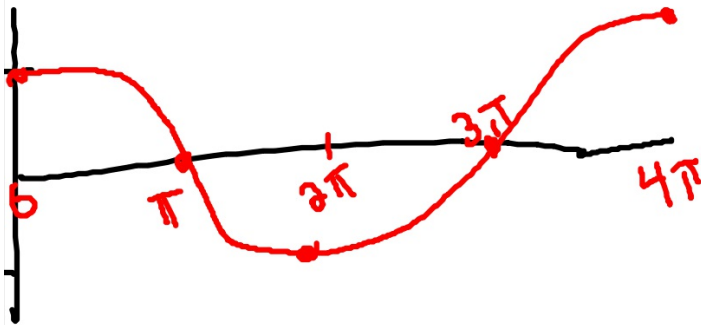
39) $y = \cos \frac{1}{2} \theta$

Amp: 1

PS: 4π

Chgs: none

Asm: none



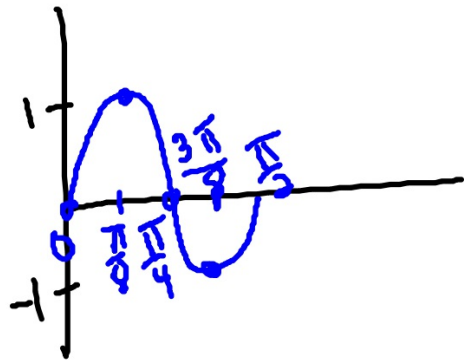
40) $y = \sin 4\theta$

Amp = 1

PS: $\pi/2$

Chgs: none

Asm: none



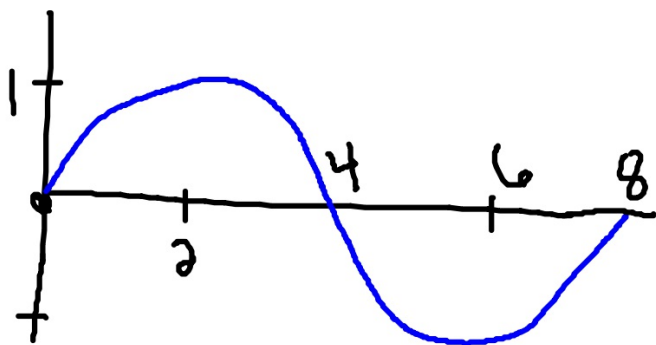
$$② \quad y = \sin \frac{\pi}{4} \theta$$

$$\text{Amp} = 1$$

$$P_0: \frac{2\pi}{\frac{\pi}{4}} = 2\pi \cdot \frac{4}{\pi} = 8$$

Chgs: none

Asm: none



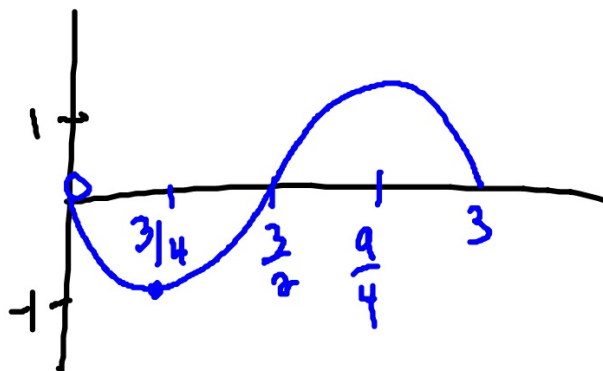
$$④③ \quad y = -\sin \frac{2\pi}{3} \theta$$

$$\text{Amp} = 1$$

$$P_0 = \frac{2\pi}{\frac{2\pi}{3}} = 3$$

Chgs: refl. x-axis

Asm: none



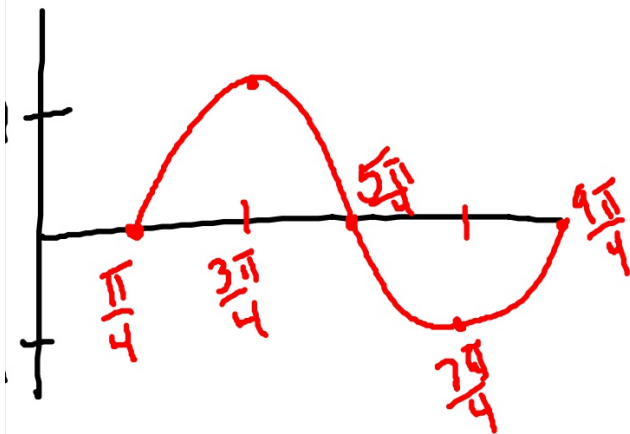
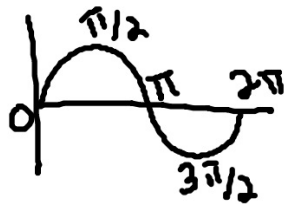
⑤ $\sin(\theta - \pi/4)$

Amp: 1

Ps: 2π

Chgs: $R \pi/4$

Asm: none



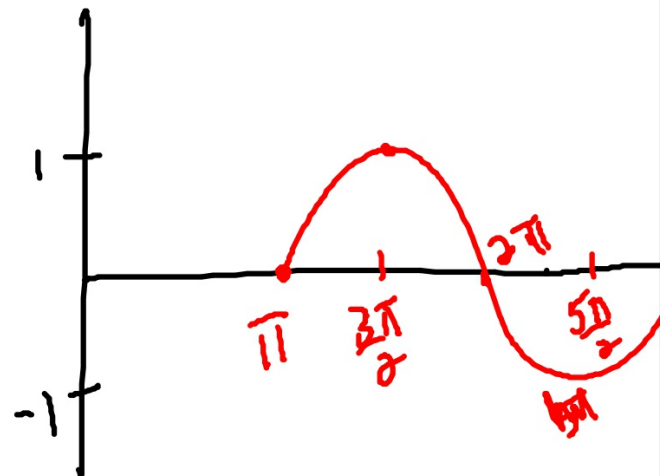
⑥ $\sin(\theta - \pi)$

Amp: 1

Ps: 2π

Chgs: $R \pi$

Asm: none



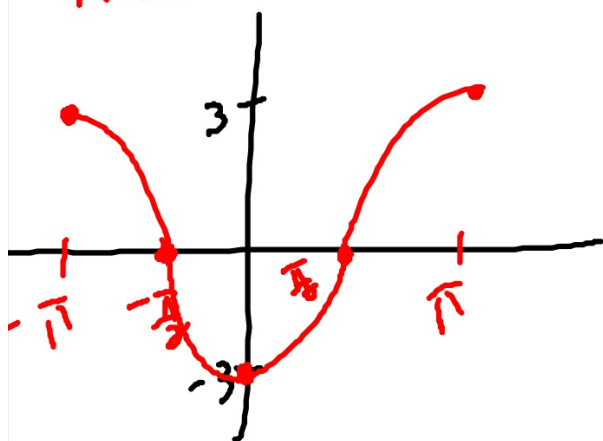
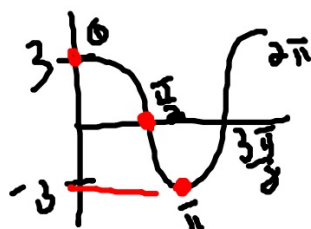
47) $y = 3 \cos(\theta + \pi)$

Amp: 3

Ps: 2π

Chgs: $L \pi$

Asm: none



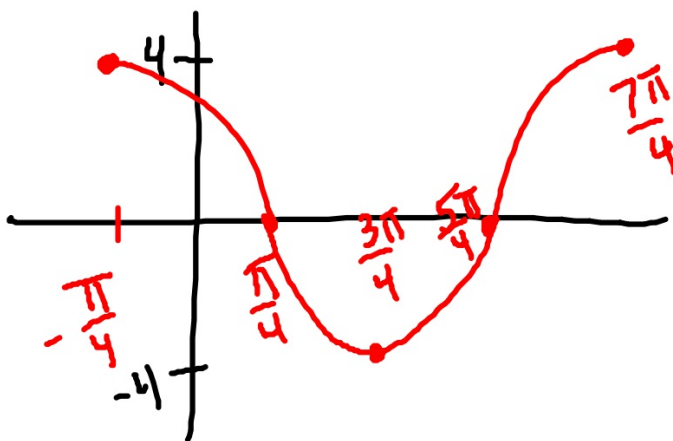
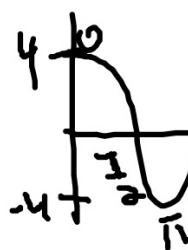
48) $y = 4 \cos(\theta + \pi/4)$

Amp: 4

Ps: 2π

Chgs: $L \pi/4$

Asm: none



339 # 2, 7, 9, 24, 35

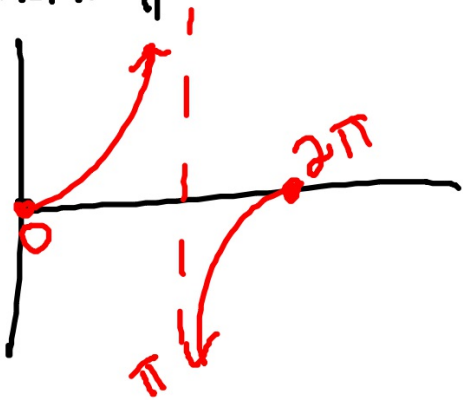
② $y = \tan \frac{1}{2} \theta$

Amp: none

PD: $\frac{\pi}{2} = 2\pi$

Chgs: none

Asm: π



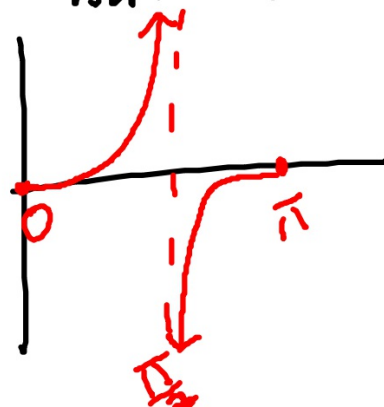
⑦ $y = \frac{1}{3} \tan \theta$

Amp: none

PD: π

Chgs: Vert. shrink

Asm: $\pi/2$



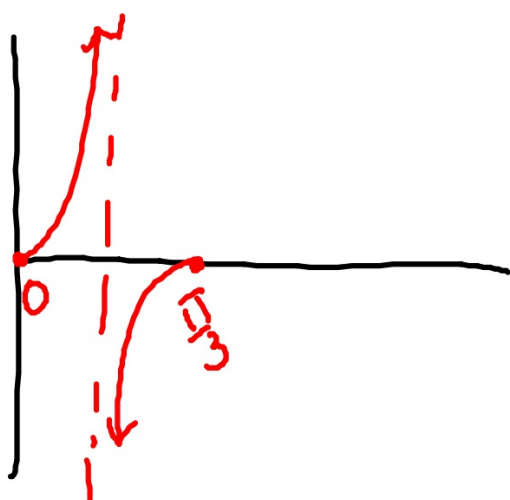
⑨ $y = \tan 3\theta$

Amp: none

PD: $\pi/3$

Chgs: none

Asm: $\frac{\pi}{6}$



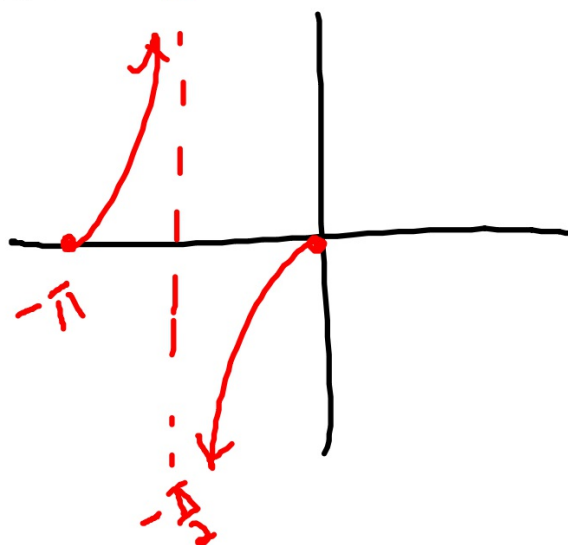
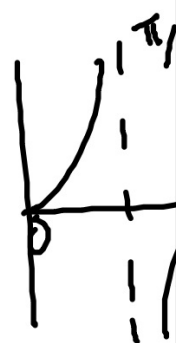
⑩ $y = \tan(\theta + \pi)$

Amp: none

PD: π

Chgs: $\angle \pi$

Asm: $-\pi/2$



35 $y = \tan(\theta - \pi/4)$

Amp: none

$\phi_0: \pi$

Chgb: R $\pi/4$

Asm:

