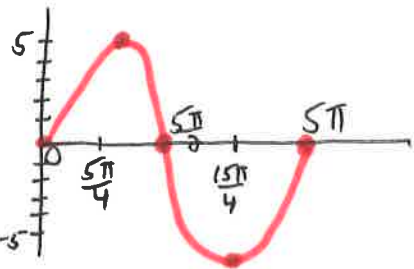


91) $y = 5 \sin \frac{\theta}{2}$

Amp: 5 Chgs: none

PD: 5π Asm: none

Pts: $(0,0)$ $(5\pi/4, 5)$ $(5\pi/2, 0)$ $(15\pi/4, -5)$ $(5\pi, 0)$

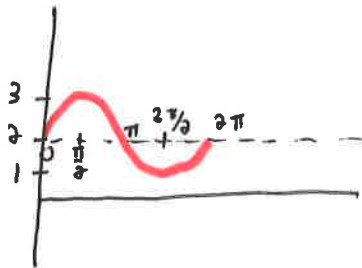


93) $y = \sin \theta + 2$

Amp: 1 Chgs: U2

PD: 2π Asm: none

Pts: $(0, 2)$ $(\pi/2, 3)$ $(\pi, 2)$ $(3\pi/2, 1)$ $(2\pi, 2)$

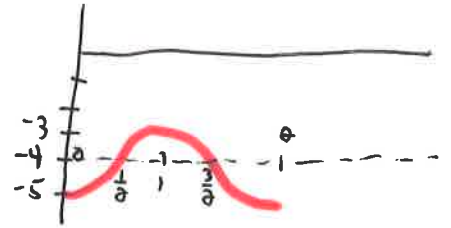


94) $y = -4 - \cos \pi \theta$

Amp: 1 Chgs: D4 Refl. x

PD: 2 Asm: none

Pts: $(0, -5)$ $(1/2, -4)$ $(1, -3)$ $(3/2, -4)$ $(2, -5)$

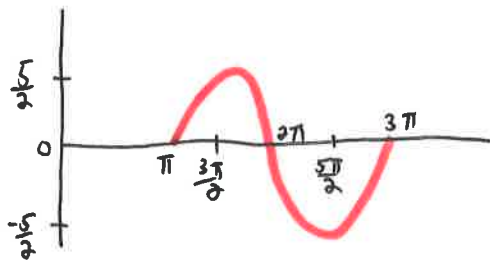
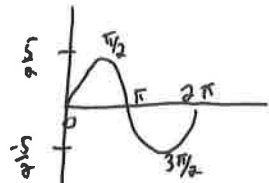


95) $y = \frac{5}{2} \sin(\theta - \pi)$

Amp: $\frac{5}{2}$ Chgs: $R\pi$

PD: 2π Asm: none

Pts: $(\pi, 0)$ $(3\pi/2, 5/2)$ $(2\pi, 0)$ $(5\pi/2, -5/2)$ $(3\pi, 0)$

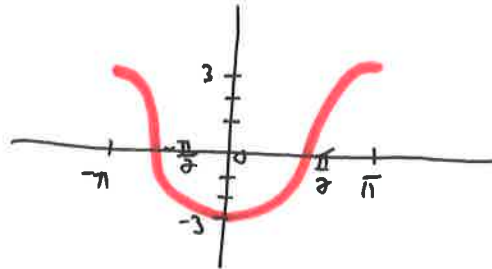
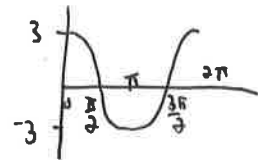


96) $y = 3 \cos(\theta + \pi)$

Amp: 3 Chgs: 2π

PD: 2π Asm: none

Pts: $(-\pi, 3)$ $(-\pi/2, 0)$ $(0, -3)$ $(\pi/2, 0)$ $(\pi, 3)$

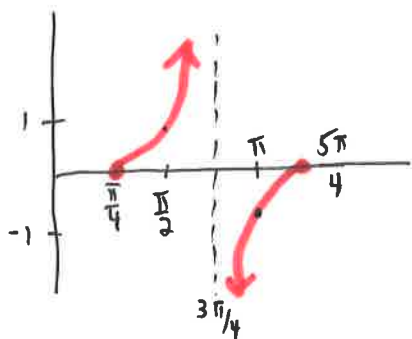
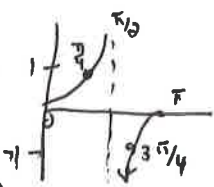


100) $y = \tan(\theta - \pi/4)$

Amp: none Chgs: $R\pi/4$

PD: π Asm: $3\pi/4$

Pts: $(\pi/4, 0)$ $(\pi/2, 1)$ $(\pi, -1)$ $(5\pi/4, 0)$

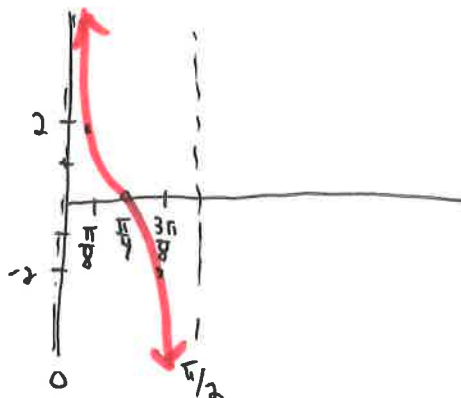
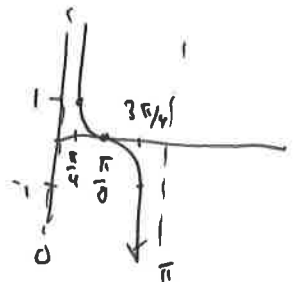


102) $y = 2 \cot 2\theta$

Amp: none Chgs: vert. stretch

PD: $\pi/2$ Asm: $0, \pi/2$

Pts: $(\pi/8, 2)$ $(\pi/4, 0)$ $(3\pi/8, -2)$

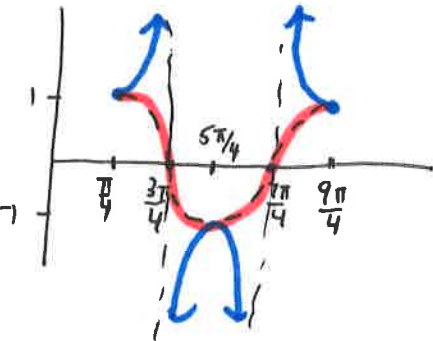
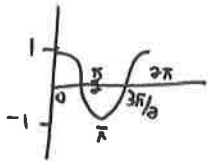


104) $y = \sec(\theta - \pi/4)$

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

Pd: 2π Asm: $\frac{3\pi}{4}, \frac{7\pi}{4}$

Pls: $(\pi/4, 1), (5\pi/4, -1), (9\pi/4, 1)$

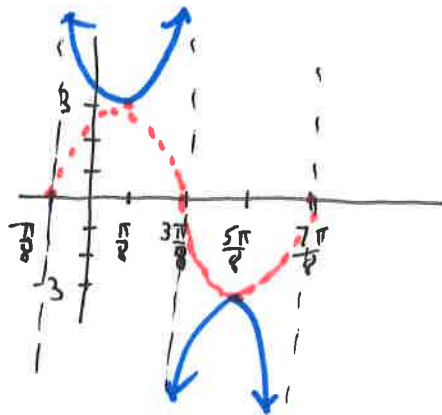
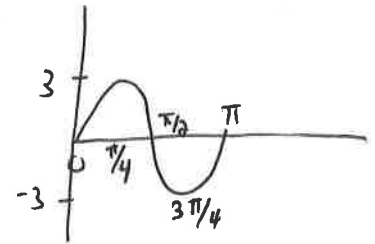


106) $y = 3 \csc(2\theta + \pi/4) = 3 \csc 2(\theta + \pi/8)$

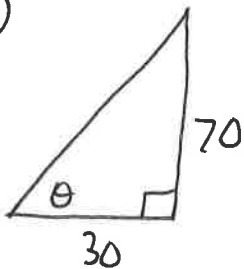
Amp: 3 Chgs: $L \pi/8$

Pd: π Asm: $-\pi/8, 3\pi/8, 7\pi/8$

Pls: $(\pi/8, 3), (5\pi/8, -3)$



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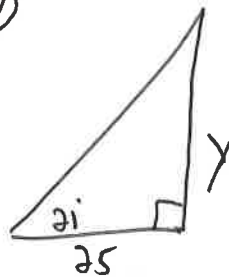


$\tan^{-1}(\tan \theta = \frac{70}{30})$

$\theta = \tan^{-1}(\frac{70}{30})$

$\theta = 66.80^\circ$

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$\tan \theta = \frac{y}{25}$

$y = 9.60 \text{ ft.}$