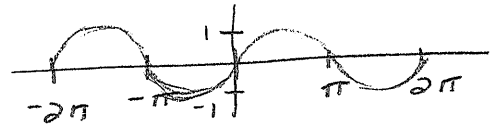
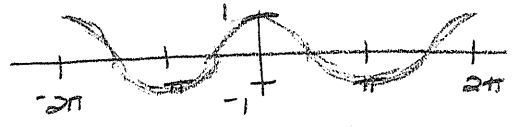


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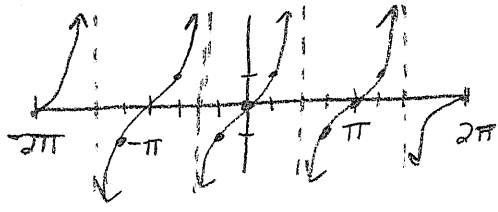
① $y = \sin x$



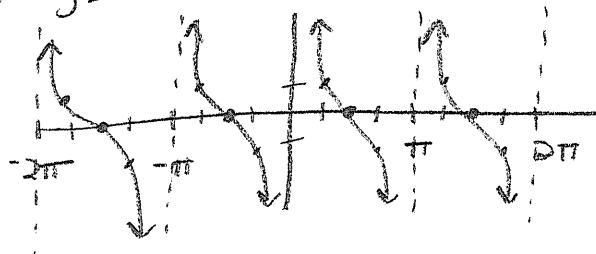
② $y = \cos x$



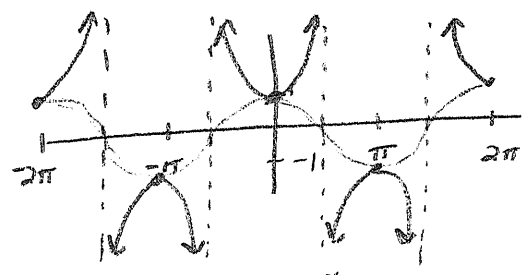
③ $y = \tan x$



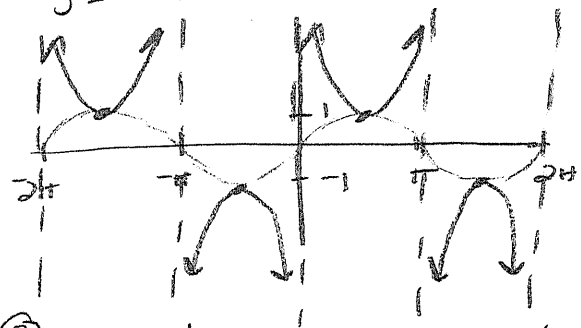
④ $y = \cot x$



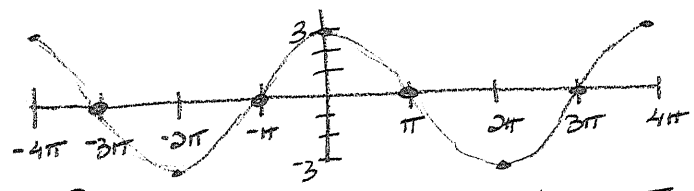
⑤ $y = \sec x$



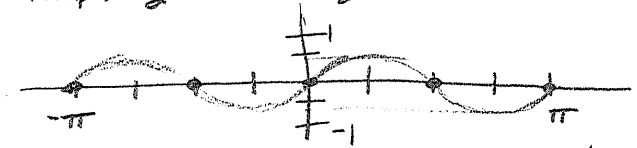
⑥ $y = \csc x$



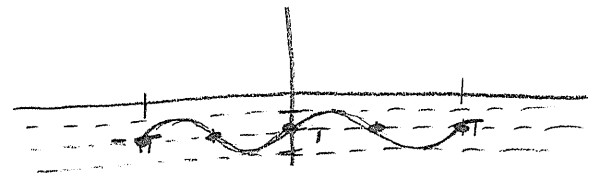
⑦ $y = 3 \cos \frac{x}{2} \quad -4\pi \leq x \leq 4\pi$
 Amp = 3 $P = \frac{2\pi}{\frac{1}{2}} = 4\pi$



⑧ $y = \frac{1}{2} \sin 2x \quad -\pi \leq x \leq \pi$
 Amp = $\frac{1}{2}$ $P = \frac{2\pi}{2} = \pi$



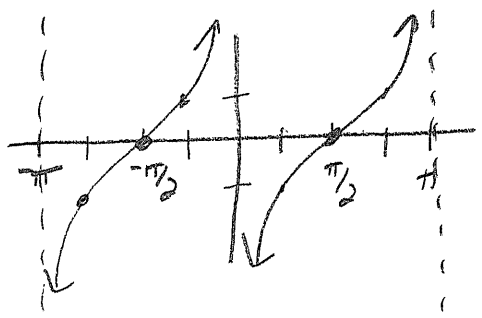
⑬ $y = -1 + \frac{1}{2} \sin 2x \quad -\pi \leq x \leq \pi$
 ↓ Amp = $\frac{1}{2}$ $P = \frac{2\pi}{2} = \pi$



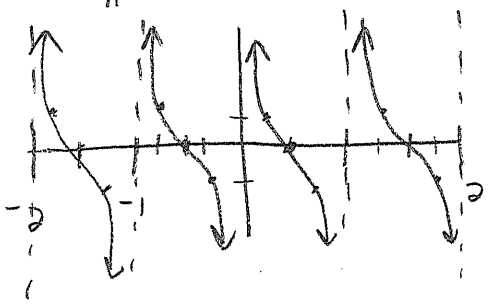
⑨ $y = 4 + \cos x \quad 0 \leq x \leq 2\pi$
 ↑ 4 Amp = 1 $P = \frac{2\pi}{1} = 2\pi$



⑳ $y = \tan(x + \frac{\pi}{2}) \quad -\pi < x < \pi$
 $P = \frac{\pi}{1} = \pi$ P.S. = $-\frac{\pi}{2}$

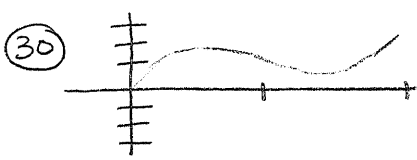


⑱ $y = \cot \pi x \quad -2 < x < 2$
 $P = \frac{\pi}{\pi} = 1$



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24) $y = -3 \cos(\pi x + \pi)$
 Amp = 3 $P = \frac{2\pi}{\pi} = 2$ P.S. = $-\frac{\pi}{\pi} = -1$



27) $y = 3 + 4 \sin\left(\frac{\pi}{2}x\right)$
 $B(4) = \left(\frac{2\pi}{B}\right)B$
 $\frac{4B}{4} = \frac{2\pi}{4}$ $B = \frac{\pi}{2}$

46) $y = 0.05 \cos Bt$

A) $P = \frac{1}{280}$

$B\left(\frac{1}{280}\right) = \left(\frac{2\pi}{B}\right)B$

$280\left(\frac{B}{280}\right) = (2\pi)280$

$B = 560\pi$

B) $f = \frac{1}{0.0025 \text{ sec}} = 400 \text{ Hz} = f$

$P = \frac{2\pi}{B}$

$B(0.0025) = \left(\frac{2\pi}{B}\right)B$

$\frac{0.0025B}{0.0025} = \frac{2\pi}{0.0025}$

$B = 800\pi$

C) $P = \frac{2\pi}{700\pi}$

$P = \frac{1}{350}$

$f = 350 \text{ Hz}$

47) $y = 18 \cos(60\pi t)$

$P = \frac{1}{f} = \frac{1}{30}$

$B\left(\frac{1}{30}\right) = \left(\frac{2\pi}{B}\right)B$

$30\left(\frac{B}{30}\right) = (2\pi)30$

$B = 60\pi$

48) $y = 6 \cos\left(\frac{\pi}{10}(t-5)\right) \rightarrow y = 6 \cos\left(\frac{\pi}{10}t - \frac{\pi}{2}\right)$

Amp = 6 $P = \frac{2\pi}{\frac{\pi}{10}} \cdot \frac{10}{\pi} = 20$

P.S. = $\frac{\pi}{2} \cdot \frac{10}{\pi} = 5$ (Start)
 (End) $5 + 20 = 25$

