

Review 4.1-4.2

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Note Title

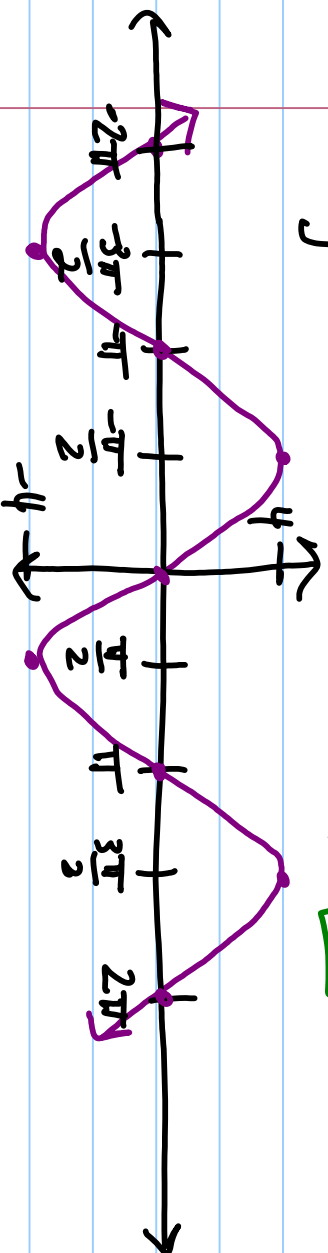
12/29/2008

① $y = -4 \sin x$

Amp: $\boxed{4}$

Period: $\boxed{2\pi}$

$$\frac{2\pi}{4} = \frac{\pi}{2}$$

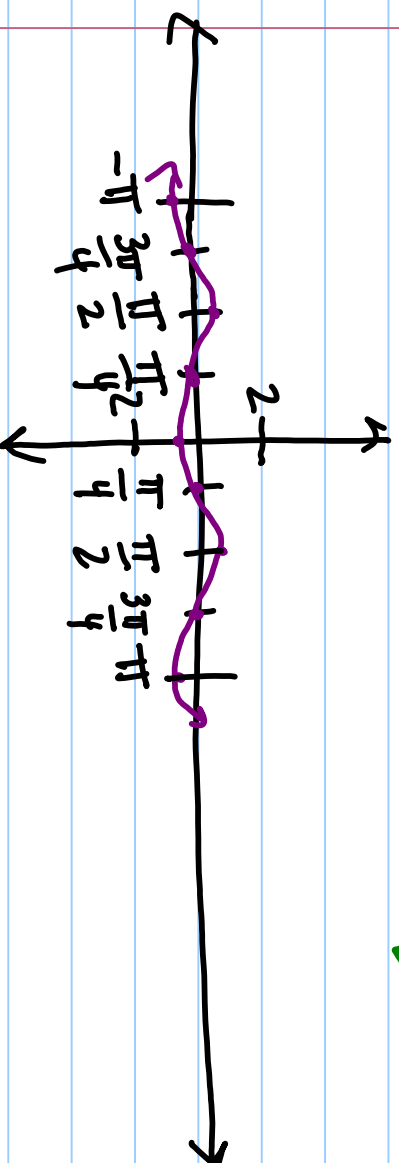


② $y = -\frac{1}{2} \cos 2x$

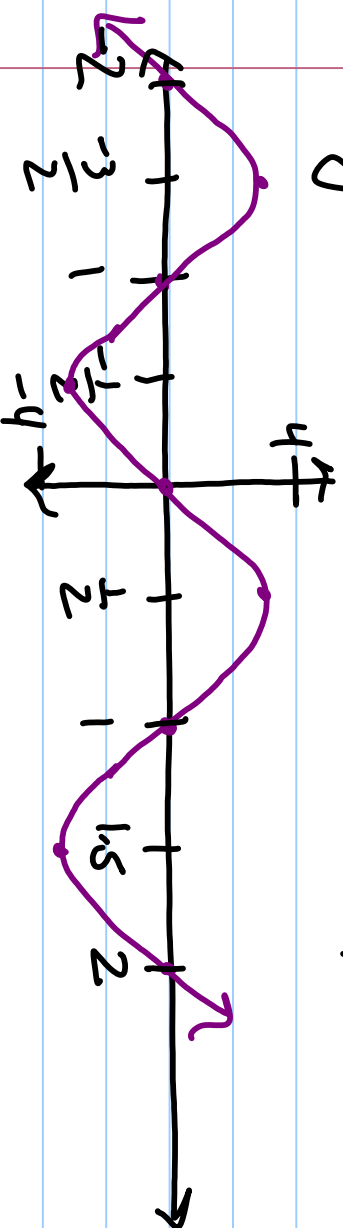
Amp: $\boxed{\frac{1}{2}}$

Period: $\frac{2\pi}{2} = \boxed{\pi}$

$$\frac{\pi}{4}$$



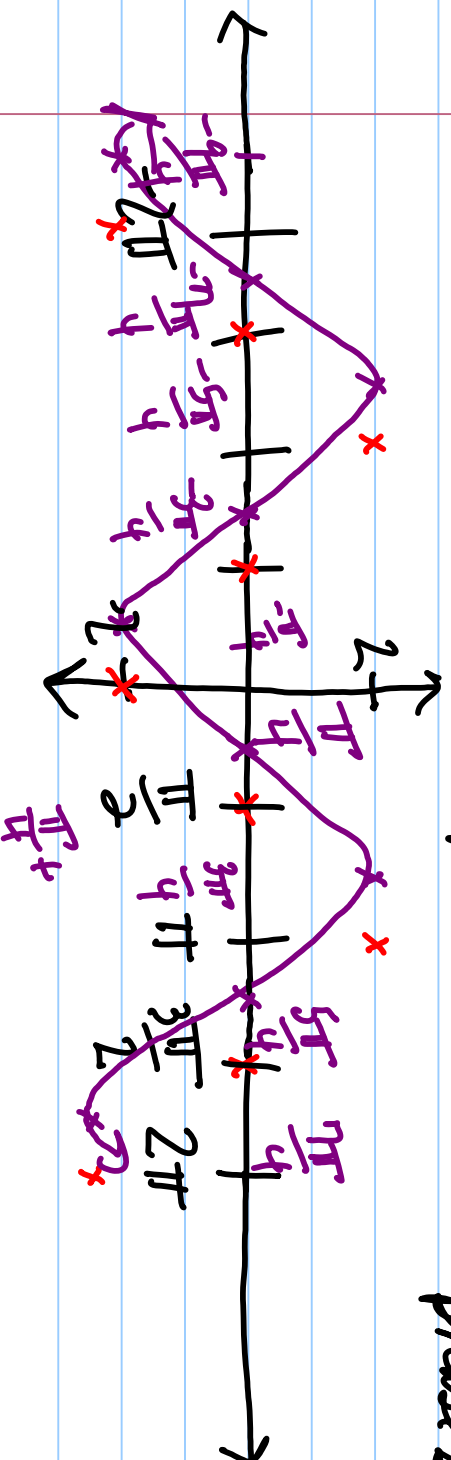
③ $y = 3 \sin \pi x$ Amp: 3 Period: $\frac{2\pi}{\pi} = 2$



$\frac{2\pi}{4} = \frac{1}{2}$

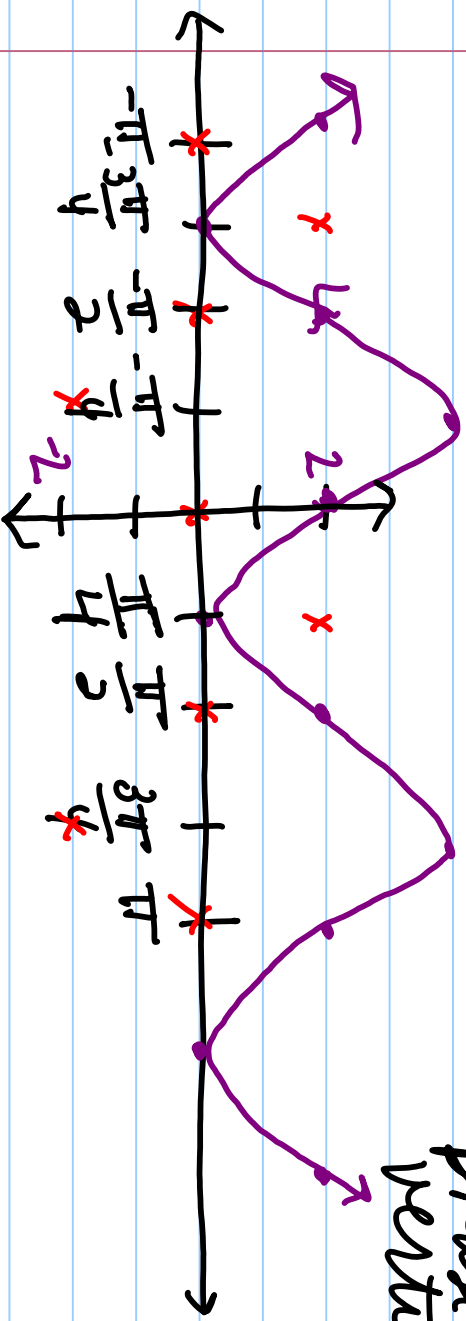
④ $y = -2 \cos \left(x + \frac{\pi}{4} \right)$ Amp: 2

Period: 2π
 Phase shift: left $\frac{\pi}{4}$



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

⑤ $y = 2 + \sin(2x - \pi)$ Amp: 1 Period: $\frac{2\pi}{2} = \pi$
 $y = 2 + \sin 2(x - \frac{\pi}{2})$



Phase shift: Right + $\frac{\pi}{2}$
 Vertical shift: up 2

⑥ $y = 2 \sin x$ ⑦ $y = 1 \cos 2x$ ⑧ $y = -1 \sin x$

⑨ $f(x) = 12 \sin [4 - 3.9]$ $f(2) = 72.63 = 173^\circ$
 ⑩ $f(3) = 67$ $f(5) = 79^\circ$ $f(6) = 83^\circ$ $f(8) = 82^\circ$
 $f(12) = 61^\circ$

