

Warm UP!

1/17/18

Graph: $f(x) = 3\sin\left(\frac{1}{3}x\right)$

Amp: 3

Per: $6\pi = \frac{2\pi}{1/3} = 2\pi \cdot \frac{3}{1} = 6\pi$

Int: $\frac{6\pi}{4} = \frac{3\pi}{2}$

$$\textcircled{0} + \frac{6\pi}{4} = \frac{6\pi}{4} + \frac{6\pi}{4} = \frac{12\pi}{4} + \frac{6\pi}{4} = \frac{18\pi}{4} + \frac{6\pi}{4} = \frac{24\pi}{4}$$

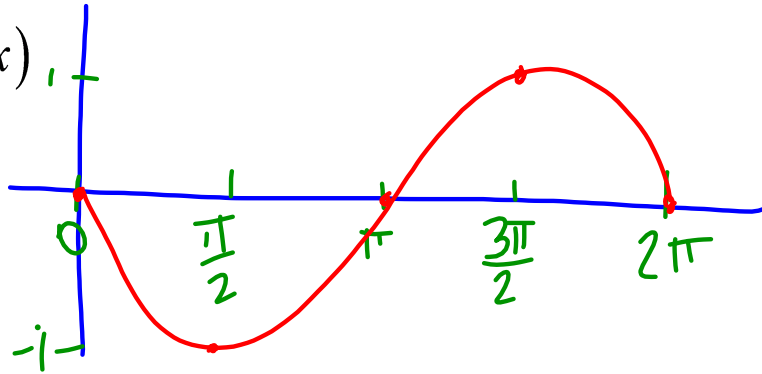
On the Quiz:

- 1) Area equation (and using it correctly)
- 2) Graphing Trig Functions
 - a) Determine Amplitude
 - b) Determine Period
 - c) Flips/Reflections over x-axis!

Ex 1) Graph:

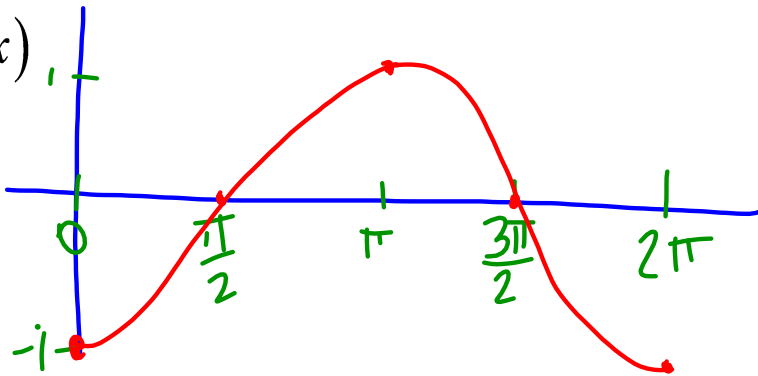
$f(x) = -\sin(x)$

Neg!



Ex 2) Graph:

$f(x) = -\cos(x)$



Ex 3) Graph: $f(x) = -5 \sin\left(\frac{\pi}{2}x\right)$

Amp: 5

Per: $\frac{2\pi}{\pi/2} = 2\pi \cdot \frac{2}{\pi} = 4$

Int: $\frac{4}{4} \cdot \frac{\text{Per}}{4} = 1$ (Add)

Neg

⊙ + 1 = ① + 1 = ② + 1 = ③ + 1 = ④

