

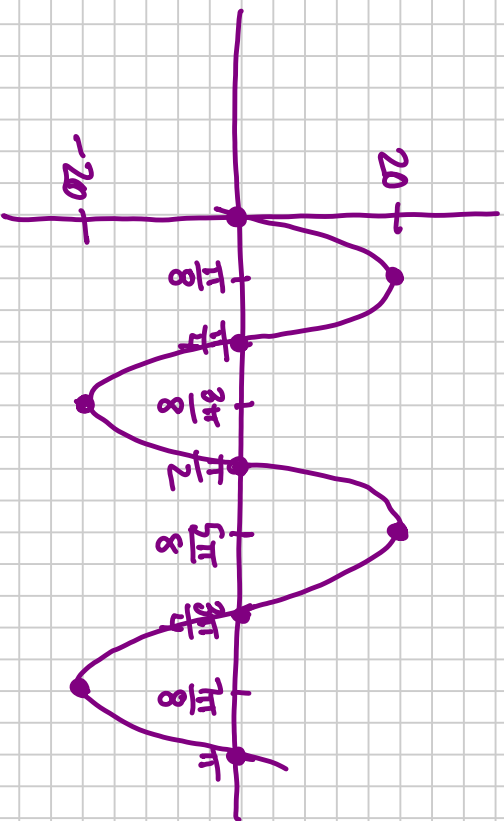
26. $y = 20 \sin 4x$

$A = 20$

$B = 4$

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

Crit pts every $\frac{\pi}{8}$



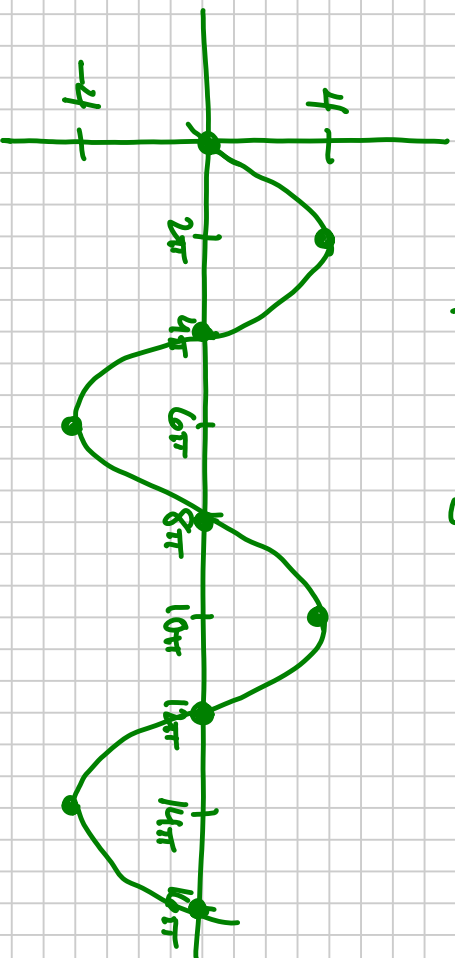
27. $y = 4 \sin \frac{x}{4}$

$A = 4$

$B = \frac{1}{4}$

Period = 8π

Crit pts every 2π



Q2. $y = -3.5 \sin(2x - \frac{\pi}{2}) - 1 = -3.5 \sin(2(x - \frac{\pi}{4})) - 1$

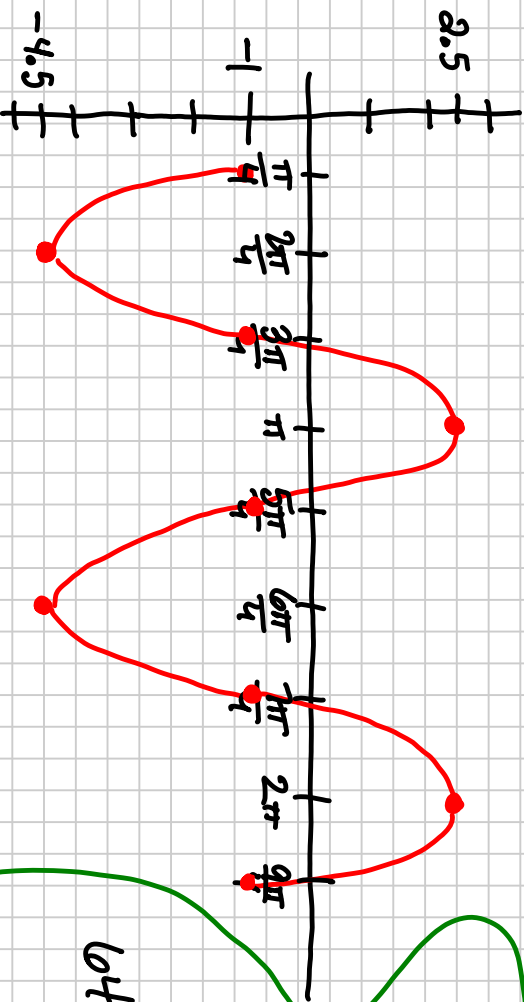
$A = 3.5$, vert. refl.

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

Crit pts every $\frac{\pi}{4}$

$C = -1$ down!

$D = \frac{\pi}{4}$ right



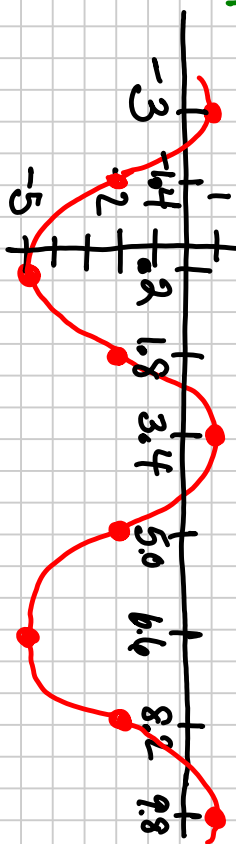
Q4.

$y = 3 \cos(x + 3) - 2$

$A = 3$
 $C = -2$

$B = 1$
 $D = 3$ left

Crit pts every $\frac{2\pi}{1} = \frac{\pi}{1} = 1.0$



$$\text{Sol. } y = 4 \cos 3\pi x - 2$$

$$A = 4 \quad B = 3\pi \quad \text{Per} = \frac{2\pi}{3\pi} = \frac{2}{3}$$

$$C = -2$$

$$D = 0$$

$$\text{Crit Pts } \frac{2}{3} \cdot \frac{1}{4} = \frac{1}{6}$$

