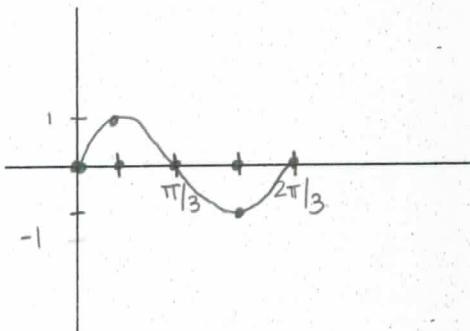


Determine the amplitude and period for the following functions. Then sketch the graph including at least one period.

1) $y = \sin(3x)$

Amplitude = 1

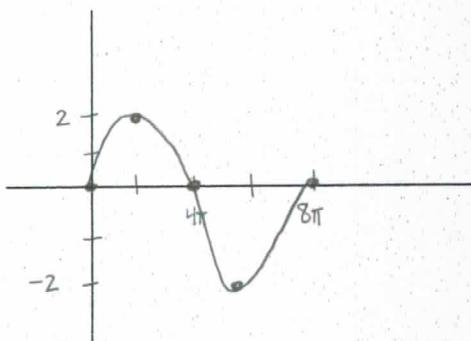
Period = $\frac{2\pi}{3}$



3) $y = 2\sin\left(\frac{1}{4}x\right)$

Amplitude = 2

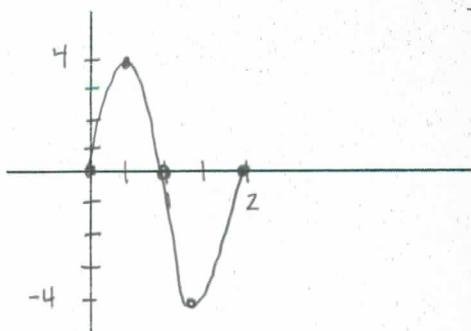
Period = 8π



5) $y = 4\sin(\pi x)$

Amplitude = 4

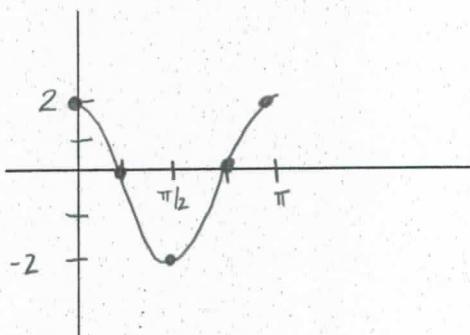
Period = 2



2) $y = 2\cos(2x)$

Amplitude = 2

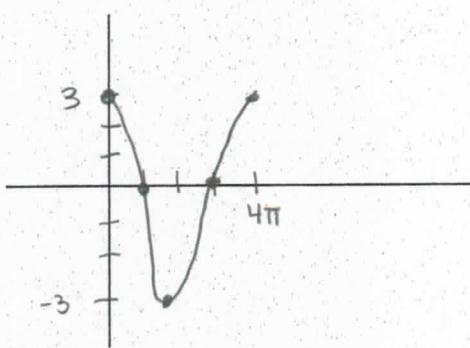
Period = π



4) $y = 3\cos\left(\frac{1}{2}x\right)$

Amplitude = 3

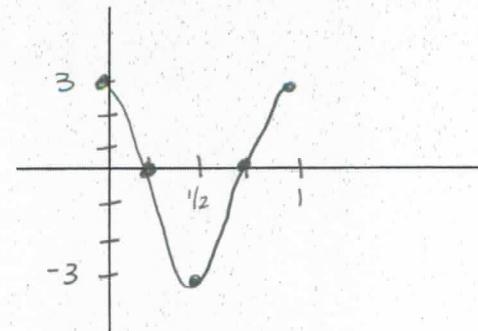
Period = 4π



6) $y = 3\cos(2\pi x)$

Amplitude = 3

Period = 1



$\sin 0^\circ$	$\tan \frac{\pi}{2}$	$\sec \pi$	$\cot 0^\circ$	$\csc 45^\circ$	$\cos \frac{\pi}{2}$	$\cot \frac{\pi}{6}$
<u>0</u>	<u>und.</u>	<u>-1</u>	<u>und.</u>	<u>$\sqrt{2}$</u>	<u>0</u>	<u>$\sqrt{3}$</u>
$\sin \frac{2\pi}{3}$	$\tan 60^\circ$	$\csc \frac{\pi}{3}$	$\cos 30^\circ$	$\sec 60^\circ$	$\csc 0^\circ$	$\cot 90^\circ$
<u>$\frac{\sqrt{3}}{2}$</u>	<u>$\sqrt{3}$</u>	<u>$\frac{2}{\sqrt{3}}$</u>	<u>$\frac{\sqrt{3}}{2}$</u>	<u>2</u>	<u>und.</u>	<u>0</u>
$\sin 60^\circ$	$\cos \frac{\pi}{3}$	$\sec \frac{\pi}{2}$	$\tan 135^\circ$	$\sec 45^\circ$	$\csc \frac{5\pi}{6}$	$\cos 45^\circ$
<u>$\frac{\sqrt{3}}{2}$</u>	<u>$\frac{1}{2}$</u>	<u>und.</u>	<u>-1</u>	<u>$\sqrt{2}$</u>	<u>2</u>	<u>$\frac{\sqrt{2}}{2}$</u>
$\sin \frac{\pi}{4}$	$\tan \frac{\pi}{4}$	$\cot \frac{\pi}{3}$	$\tan 0^\circ$	$\cos 0^\circ$	$\cot 45^\circ$	$\sec \frac{\pi}{6}$
<u>$\frac{\sqrt{2}}{2}$</u>	<u>1</u>	<u>$\frac{\sqrt{3}}{3}$</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>$\frac{2}{\sqrt{3}}$</u>
$\sin 90^\circ$	$\csc 30^\circ$	$\cos 120^\circ$	$\sec 0^\circ$	$\csc \frac{\pi}{2}$	$\tan \frac{\pi}{3}$	$\cot \frac{3\pi}{4}$
<u>1</u>	<u>2</u>	<u>$-\frac{1}{2}$</u>	<u>1</u>	<u>1</u>	<u>$\sqrt{3}$</u>	<u>-1</u>
$\sin \frac{\pi}{6}$	$\sin 150^\circ$	$\tan \frac{5\pi}{6}$	$\sec \frac{5\pi}{3}$	$\cot 150^\circ$	$\csc 180^\circ$	$\cos \frac{4\pi}{3}$
<u>$\frac{1}{2}$</u>	<u>$\frac{1}{2}$</u>	<u>$-\frac{\sqrt{3}}{3}$</u>	<u>2</u>	<u>$-\sqrt{3}$</u>	<u>und.</u>	<u>$-\frac{1}{2}$</u>
$\cot \frac{11\pi}{6}$	$\sin \frac{4\pi}{3}$	$\tan 210^\circ$	$\csc \frac{11\pi}{6}$	$\cos 225^\circ$	$\sec 240^\circ$	$\csc 135^\circ$
<u>$-\sqrt{3}$</u>	<u>$-\frac{\sqrt{3}}{2}$</u>	<u>$\frac{\sqrt{3}}{3}$</u>	<u>-2</u>	<u>$-\frac{\sqrt{2}}{2}$</u>	<u>-2</u>	<u>$\sqrt{2}$</u>
$\cot 180^\circ$	$\sin 300^\circ$	$\cos \frac{7\pi}{4}$	$\sec \frac{3\pi}{4}$	$\tan 315^\circ$	$\sec 150^\circ$	$\csc \frac{3\pi}{2}$
<u>und.</u>	<u>$-\frac{\sqrt{3}}{2}$</u>	<u>$\frac{\sqrt{2}}{2}$</u>	<u>$-\sqrt{2}$</u>	<u>-1</u>	<u>$\frac{-2}{\sqrt{3}}$</u>	<u>-1</u>
$\cos 240^\circ$	$\sin \frac{11\pi}{6}$	$\tan \frac{5\pi}{4}$	$\cot \frac{5\pi}{3}$	$\tan 300^\circ$	$\cos \frac{7\pi}{6}$	$\cot 240^\circ$
<u>$-\frac{1}{2}$</u>	<u>$-\frac{1}{2}$</u>	<u>1</u>	<u>$-\frac{\sqrt{3}}{3}$</u>	<u>$-\sqrt{3}$</u>	<u>$-\frac{\sqrt{3}}{2}$</u>	<u>$\frac{\sqrt{3}}{3}$</u>
$\sec \frac{5\pi}{4}$	$\sin 270^\circ$	$\csc 315^\circ$	$\cos 330^\circ$	$\sec 120^\circ$	$\csc \frac{7\pi}{6}$	$\tan \frac{3\pi}{2}$
<u>$-\sqrt{2}$</u>	<u>-1</u>	<u>$-\sqrt{2}$</u>	<u>$\frac{\sqrt{3}}{2}$</u>	<u>-2</u>	<u>-2</u>	<u>und.</u>