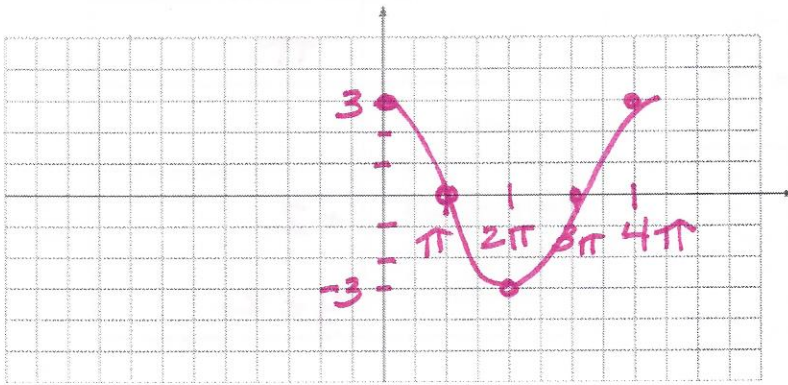


Graphing Sine and Cosine Functions Practice

Key

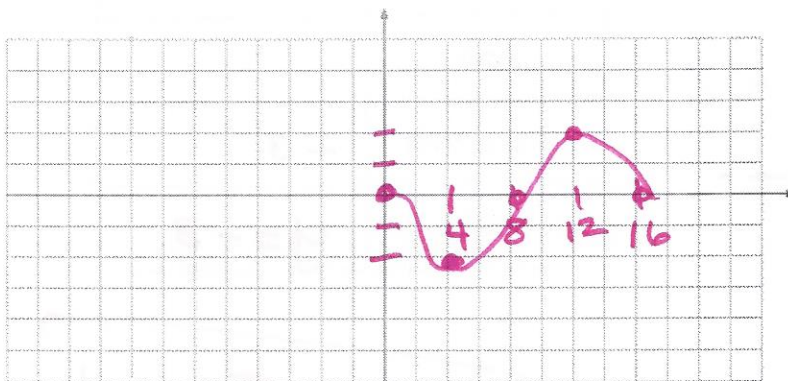
Name: _____

1. $f(x) = 3 \cos \frac{1}{2}x$



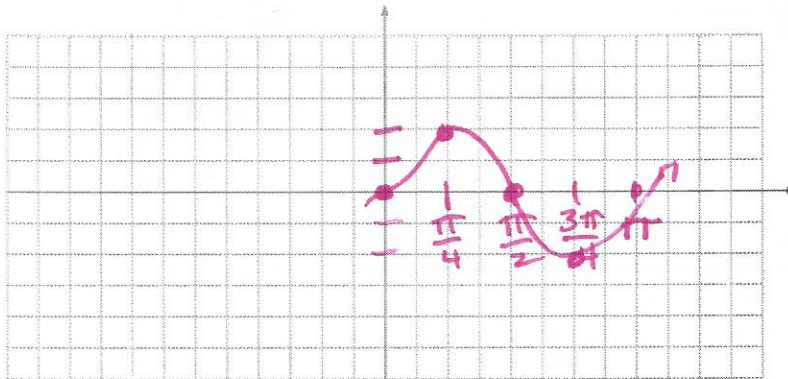
Amplitude:	3
Period:	4π
Scale	
Vertical Shift	NA
Midline	$y = 0$

2. $f(x) = -2 \sin \left(\frac{\pi}{8} \theta \right)$



Amplitude:	2
Period:	16
Scale	
Vertical Shift	NA
Midline	$y = 0$

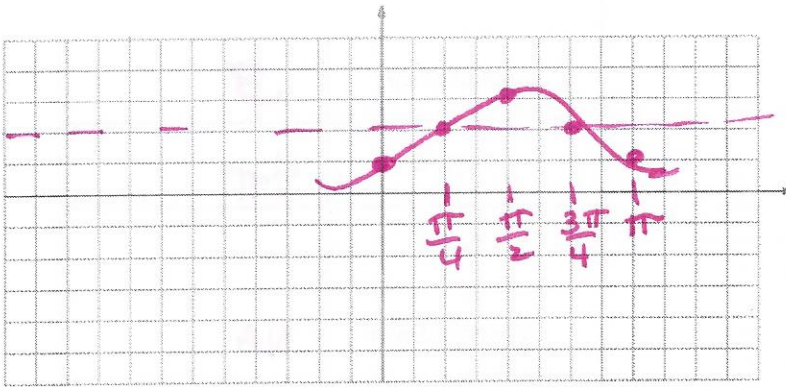
3. $y = 2 \sin 2x$



Amplitude:	2
Period:	π
Scale	
Vertical Shift	NA
Midline	$y = 0$

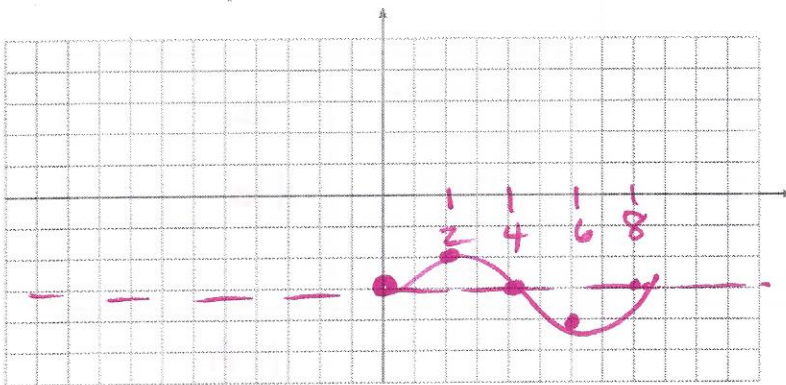
$y = 3 \cos \frac{1}{2} x$

4. $y = -\cos 2x + 2$



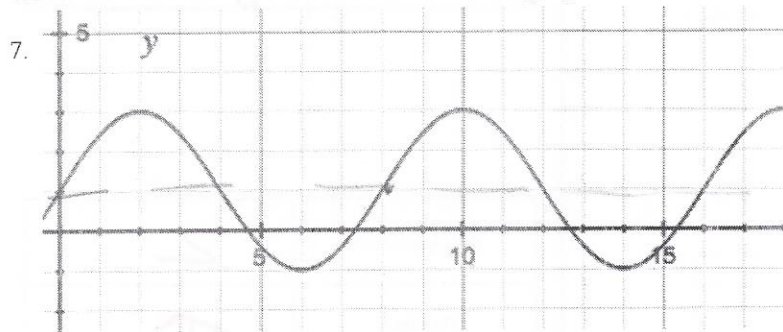
Amplitude:	1
Period:	π
Scale	
Vertical Shift	+2
Midline	$y=2$

5. $f(x) = \sin \frac{\pi}{4} \theta - 3$



Amplitude:	1
Period:	8
Scale	
Vertical Shift	-3
Midline	$y=-3$

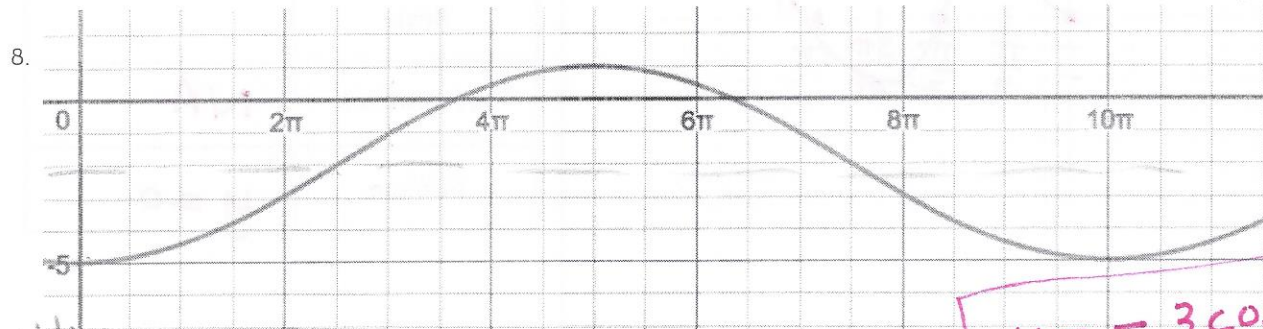
Write the sine or cosine function from the graph.



$y = 2 \sin \frac{\pi}{4} \theta + 1$

midline $y=1$
 $a=2$
 period = 8

$\frac{2\pi}{b} = 8$
 $\frac{2\pi}{8} = \frac{2\pi}{b}$
 $b = \frac{2\pi}{4}$



midline $y=-2$
 $a=3$ period = 10π

$10\pi = \frac{2\pi}{b}$

$y = -3 \cos \frac{1}{5} \theta - 2$

$10\pi b = 2\pi$ $b = \frac{1}{5}$