

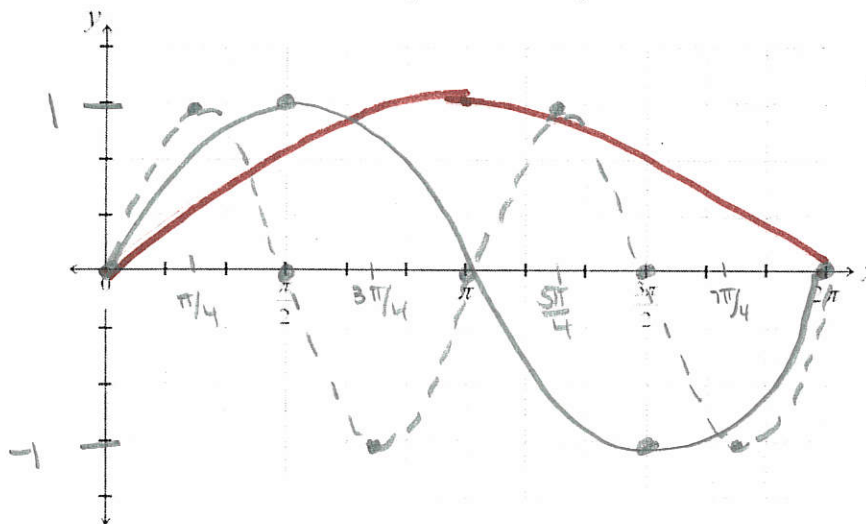
Name: Key

Day 3

Drawing Graphs & Writing Equations

x (radians)	0	$\pi/4$	$\pi/2$	$3\pi/4$	π	$5\pi/4$	$3\pi/2$	$7\pi/4$	2π
$y = \sin x$	0	.71	1	.71	0	-.71	-1	-.71	0
$y = \sin 2x$	0	1	0	-1	0	1	0	-1	0
$y = \sin \frac{1}{2}x$	0	.38	.71	.92	1	-.92	-.71	-.38	0

$f(a \cdot x)$



— : $y = \sin x$
 - - - : $y = \sin 2x$
 — : $y = \sin \frac{1}{2}x$

length of full cycle →

	$y = \sin x$	$y = \sin 2x$	$y = \frac{1}{2}\sin x$
Period	2π	π	$\pi/4$
Frequency	1	2	$\frac{1}{2}$

↑ how many full cycles over an interval of 2π