Trigonometry Worksheet: Graph Trigonometric Functions (2)

Graph the trigonometric function given by

$$y = -\frac{1}{2}\sin(-3x) = -\frac{1}{2}(-\sin 3x) = \frac{1}{2}\sin(3x)$$

one cycle can be found by solving, $0 \le 3x \le 2\pi$, 2π period of sine function

$\Rightarrow \quad 0 \le x \le \frac{2\pi}{3}$

$3x$	0	$\pi/2$	π	$3\pi/2$	2π
$\sin(3x)$	0	1	0	-1	0
x	0	$\pi/6$	$\pi/3$	$\pi/2$	$2\pi/3$
y	0	$1/2$	0	$-1/2$	0