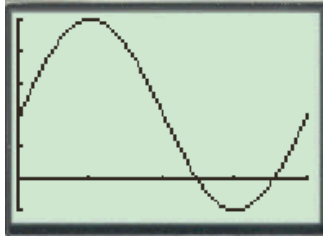


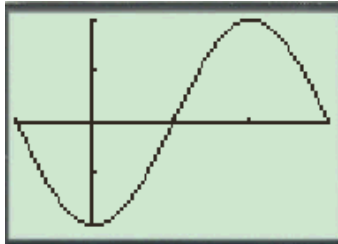
Sketching Sinusoidal Relations (SOLUTIONS)

1. $y = 3\sin\theta + 2$



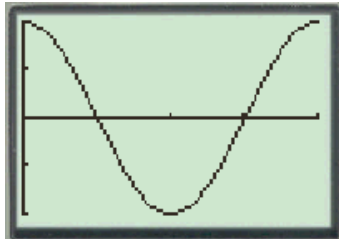
X	Y1
0	2
90	5
180	2
270	-1
360	2

2. $y = -2\sin 2(x + 45^\circ)$



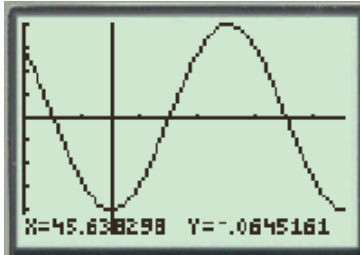
X	Y1
-45	0
0	-2
45	0
90	2
135	0

3. $y = 2\cos 2x$



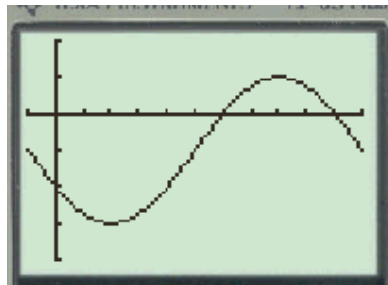
X	Y1
0	2
45	0
90	-2
135	0
180	2

4. $y = -4\cos 3(\beta - 45^\circ)$



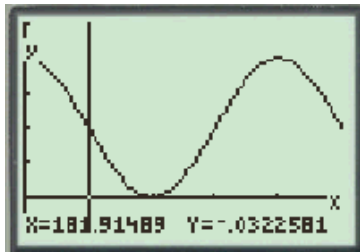
X	Y1
45	-4
75	0
105	4
135	0
165	-4

5. $y = -2\sin(\theta + 30^\circ) - 1$



X	Y1
-30	-1
60	-3
150	-1
240	1
330	-1

6. $y = -2\sin\frac{1}{2}(x - 180^\circ) + 2$

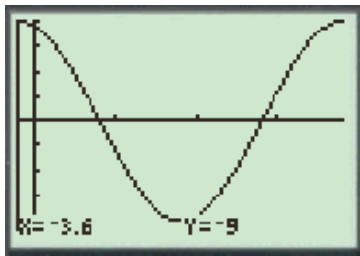


X	Y1
180	2
360	0
540	2
720	4
900	2

7. $f(x) = 8\cos 5(x + 3^\circ)$

X	Y1
-3	8
15	0
33	-8
51	0
69	8
87	0
105	-8

X = -3



8. $y = 2\cos 10(x - 9^\circ) - 1$

X	Y1
9	1
18	-1
27	-3
36	-1
45	1
54	-1
63	-3

X = 9

