Practice Test

1. $y = -3\cos\left(\frac{2}{3}\theta\right)$

a) Find a

b) Find amp

c) Find b

d) Find P

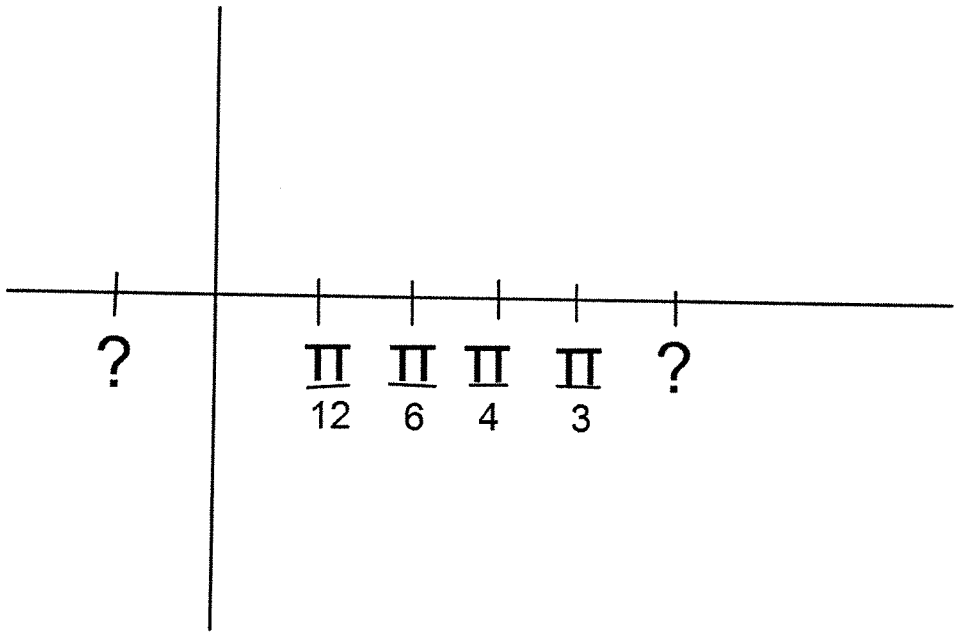
e) What is the max? The min?

2. Make the table for $y = 6\sin(8\theta)$
   Show a,b,P work

DO NOT GRAPH

θ	y

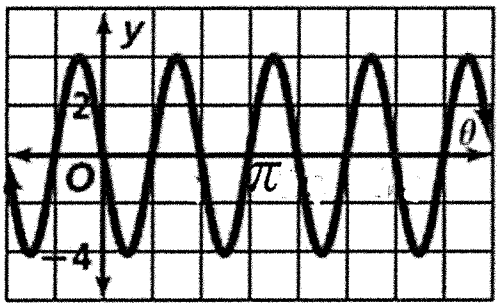
3. What are the missing labels on the graph?



4. Fill in the missing values then graph.

θ	y
0	?
$\frac{5\pi}{4}$	- 3
$\frac{5\pi}{2}$	?
?	?
5π	?

5. Use the graph to answer the questions below



a) Is this sine or cosine?

b) What is a?

c) What is b?

d) What is P?

e) What is the eqn of this fcn?

Answers

Practice Test

1. $y = -3\cos\left(\frac{2}{3}\theta\right)$

a) Find a $= -3$

b) Find amp $= |-3| = 3$

c) Find b $= 2/3$

d) Find P $= 2\pi/2/3 = \frac{2\pi}{1} \cdot \frac{3}{2} = \frac{6\pi}{2} = 3\pi$

e) What is the max? 3 The min? -3

2. Make the table for $y = 6\sin(8\theta)$
Show a,b,P work

DO NOT GRAPH

$a = 6$

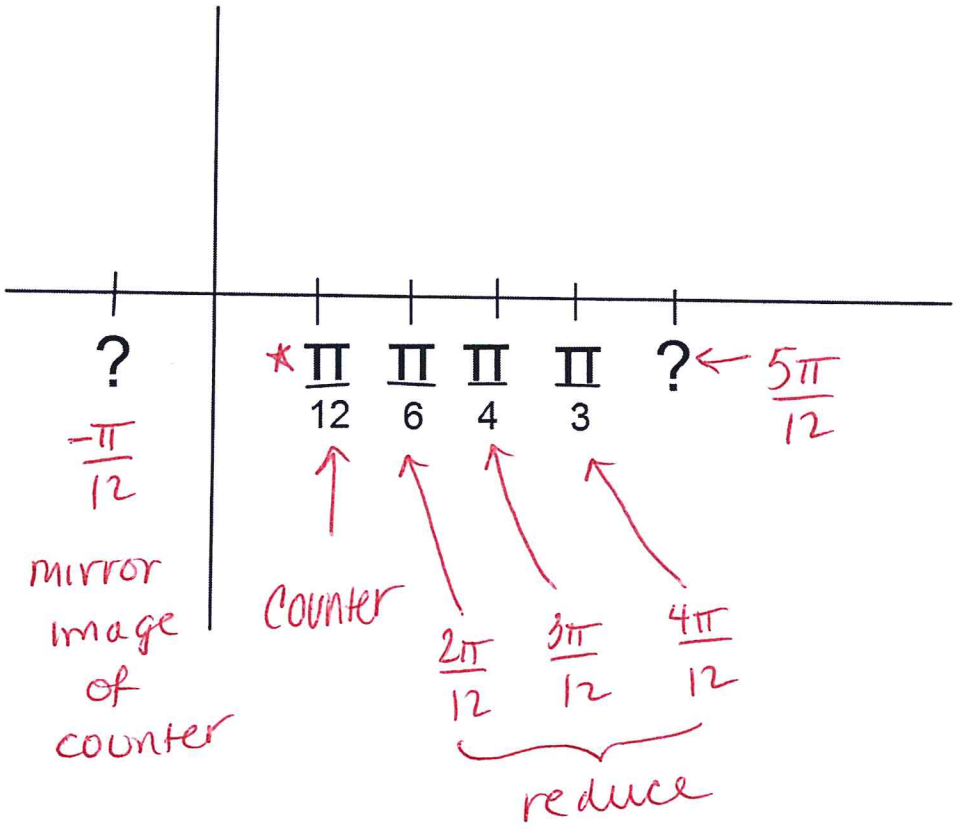
$b = 8$

$P = \frac{2\pi}{8} = \pi/4$

θ	y
$0 \cdot \pi/4 = 0$	0
$\frac{1}{4} \cdot \frac{\pi}{4} = \frac{\pi}{16}$	6
$\frac{1}{2} \frac{\pi}{4} = \frac{\pi}{8}$	0
$\frac{3}{4} \cdot \frac{\pi}{4} = \frac{3\pi}{16}$	-6
$1 \cdot \frac{\pi}{4} = \pi/4$	0

If you don't do the 1st, 5th, 3rd, 2nd, 4th skip around method

3. What are the missing labels on the graph?



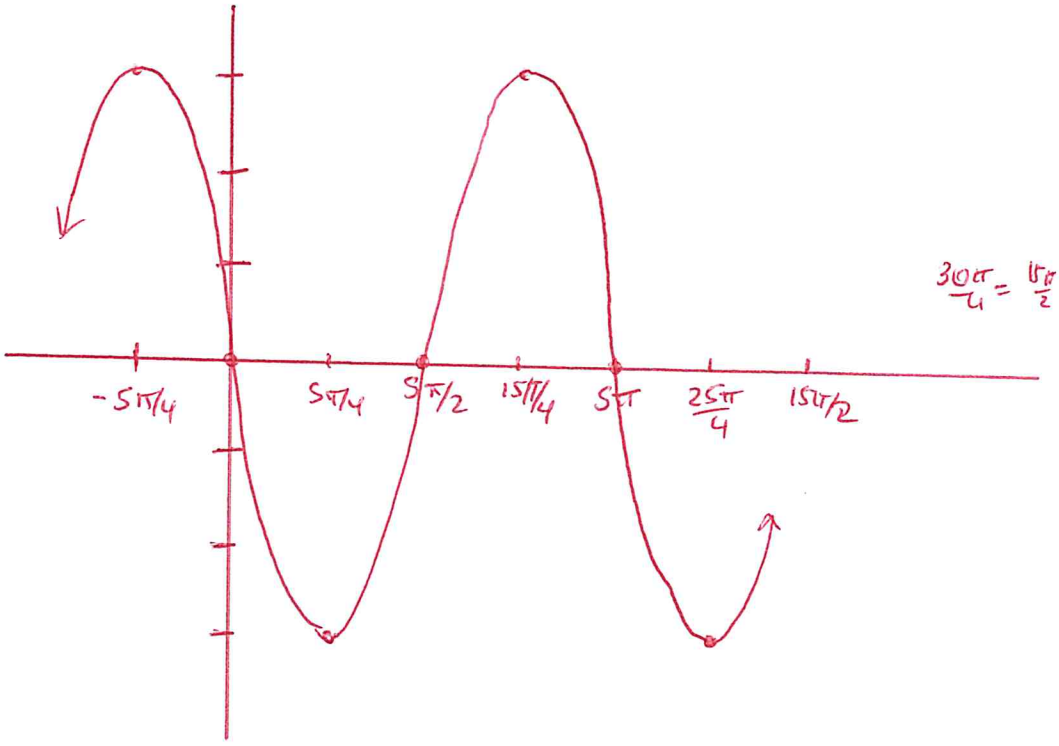
4. Fill in the missing values then graph.

θ	y
0	? 0
✶ $\frac{5\pi}{4}$	-3
$\frac{5\pi}{2}$	? 0
? $\frac{15\pi}{4}$	? 3
5π	? 0

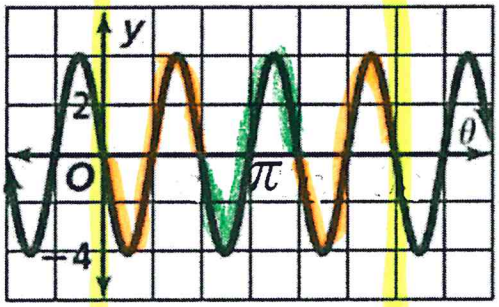
$\frac{5\pi}{4}+\frac{5\pi}{4}=\frac{10\pi}{4}=$

$\frac{0\pi}{4}+\frac{5\pi}{4}=$

you go up by $\frac{5\pi}{4}$ each time



5. Use the graph to answer the questions below



amp = 4 w/ reflection

a) Is this sine or cosine?

b) What is a? = −4

c) What is b? 3

d) What is P? $P = 2\pi/3$

e) What is the eqn of this fcn?

$y = -4\sin 3\theta$