

Name:

Part 2: Trig

DUE 6-8-18

1) Convert

a) the angle $\frac{3\pi}{5}$ from radians to degrees

b) the angle 310° to radians.

2) Graph one cycle of the function $f(x) = 7\sin\left(\frac{4\pi}{3}\theta\right)$. State the period & the amplitude, and make a table.

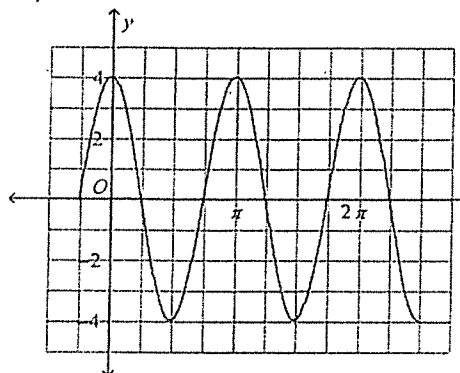
3) Graph one cycle of the function $f(x) = 2\cos(\pi\theta)$. State the period & the amplitude, and make a table.

4) Graph one cycle of the function $f(x) = -3\sin(4\theta)$. State the period & the amplitude, and make a table.

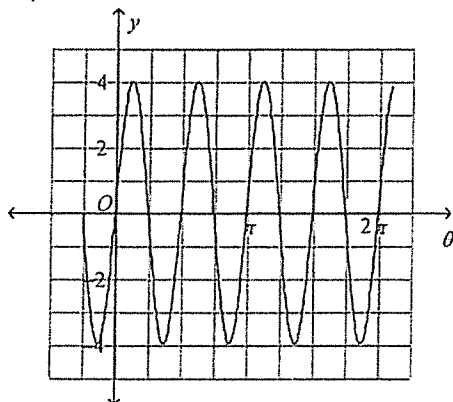
5) Graph one cycle of the function $f(x) = -4\cos\left(\frac{1}{2}\theta\right)$. State the period & the amplitude, and make a table.

Write an equation that satisfies the given periodic graph. Mark/highlight graph to show work.

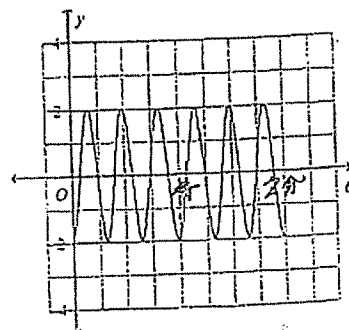
16)



17)



18)

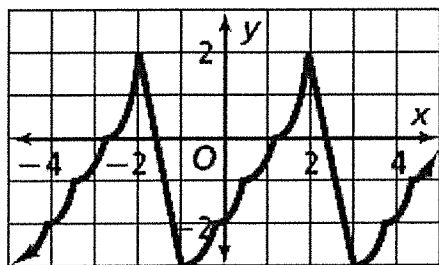


Write an equation that matches the given description.

13) A cosine function with amplitude of 3 and period of 4π .

14) A reflected sine function with amplitude of 4 and period of 3.

15) A sine function with amplitude of 10 and period of π .



16. Determine the period and amplitude of the graph on the left.

Mark/highlight graph to show work.

Find *at least* two angles that are coterminal to the given angle.

17) 100°

18) 480°

19) -220°

20) -500°

Find the reference angle of the given angle. Draw the angle in standard position, show work. Ex 360-45

21) 225°

22) 120°

23) 330°

24) 60°

25) If $\cos\theta = -\frac{3}{5}$ and sine is positive, find the other two trig ratios. Draw & label your reference triangle(s)

26) If $\tan\theta = -\frac{7}{8}$ what are all the possible values of *sine* and *cosine*? Draw & label your reference triangle(s)

Find the exact value of the following: Draw & label your reference triangle(s)

27) $\sin \frac{11\pi}{6}$

28) $\cos \frac{5\pi}{6}$

29) $\tan \frac{5\pi}{4}$