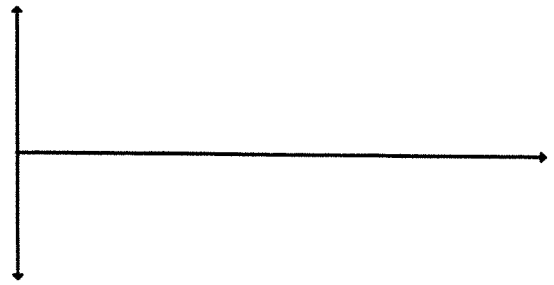
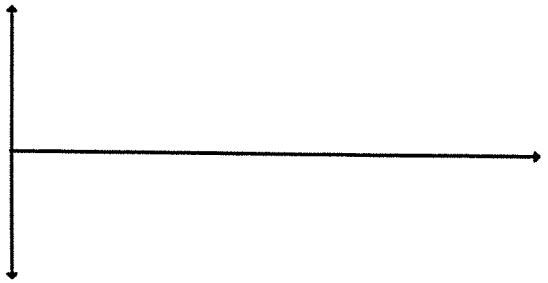
Graph one period of: $y = 15\cos(2x/9)$

label the coordinates of all min, max, and x-int.

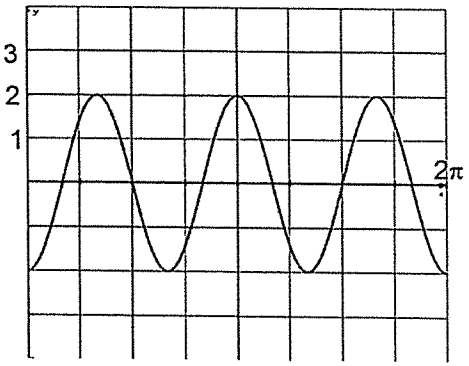


Graph one period of: $y = -7\cos 23x$

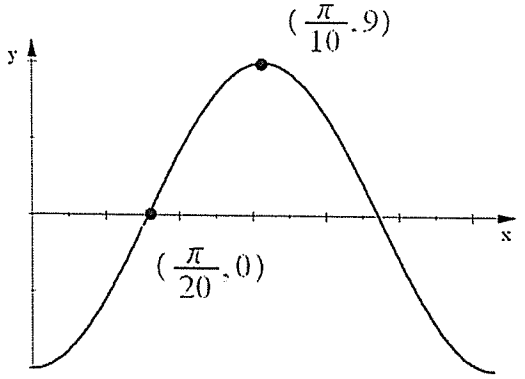
label the coordinates of all min, max, and x-int.



Write the equation of this Cosine Function.



Write the equation of this Cosine Function:



ANSWERS

Graph one period of: $y = 15\cos(2x/9)$

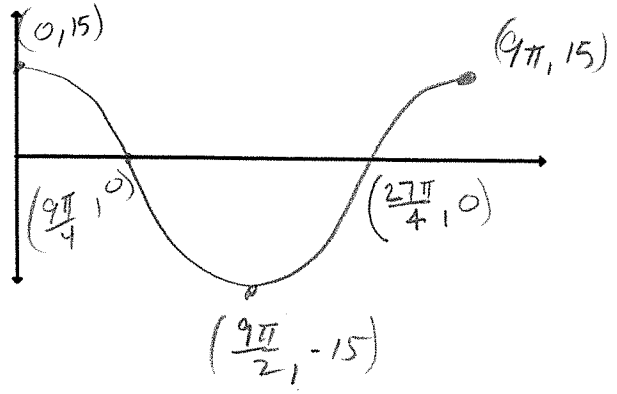
label the coordinates of all min, max, and x-int.

Amp = 15

period $= \frac{2\pi}{\frac{2}{9}}$

$= 2\pi \cdot \frac{9}{2}$

$= 9\pi$

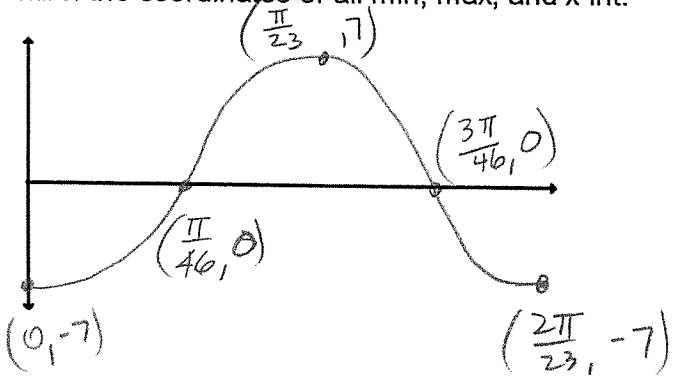


Graph one period of: $y = -7\cos 23x$

label the coordinates of all min, max, and x-int.

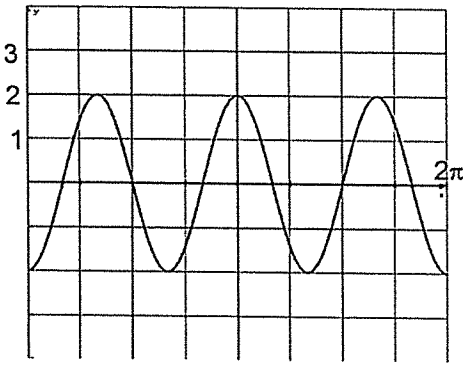
Amp = 7

period = 2π/2



Write the equation of this Cosine Function.

$y = -2\cos 3x$



Amp = 2

upside down

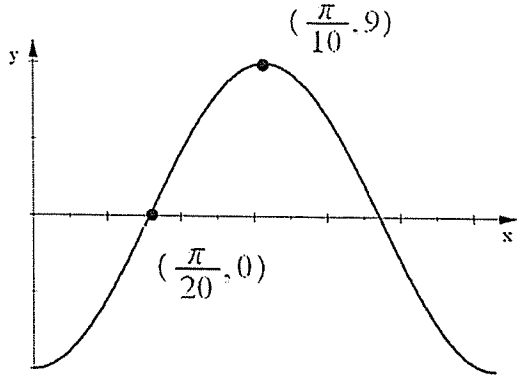
$a = -2$

period $= \frac{2\pi}{3}$

$b = \frac{2\pi}{\frac{2\pi}{3}} = 2\pi \cdot \frac{3}{2\pi} = 3$

Write the equation of this Cosine Function:

$y = -9\cos 10x$



period $= \frac{\pi}{10} \times 2 = \frac{\pi}{5}$

$b = \frac{2\pi}{\frac{\pi}{5}} = 2\pi \cdot \frac{5}{\pi} = 10$

Amp = 9

upside down

$a = -9$