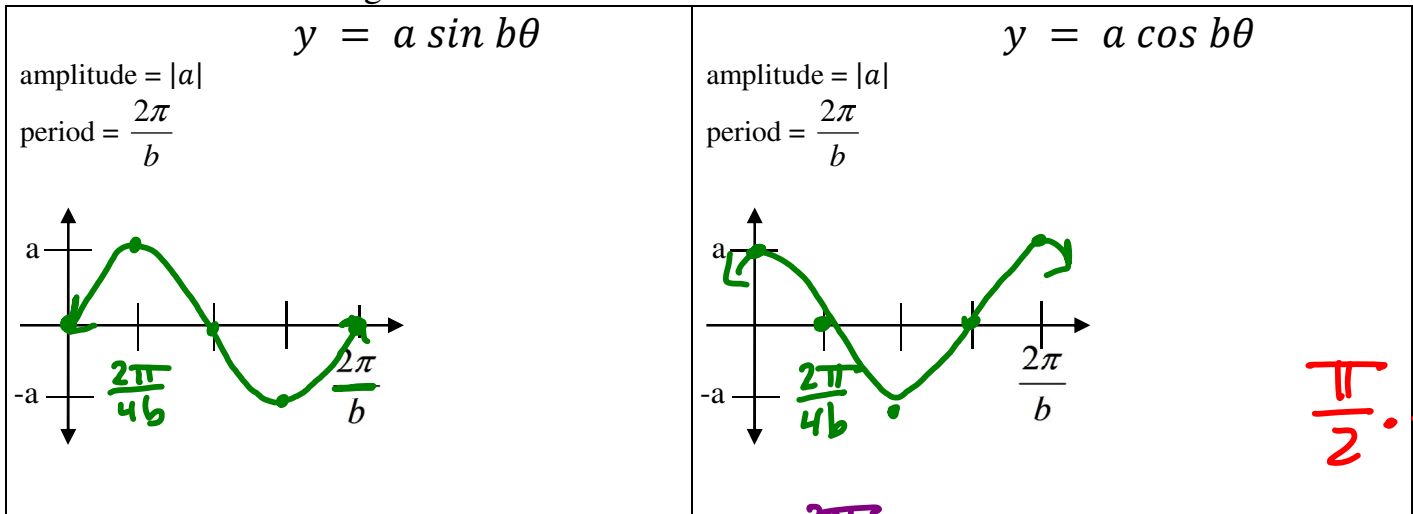
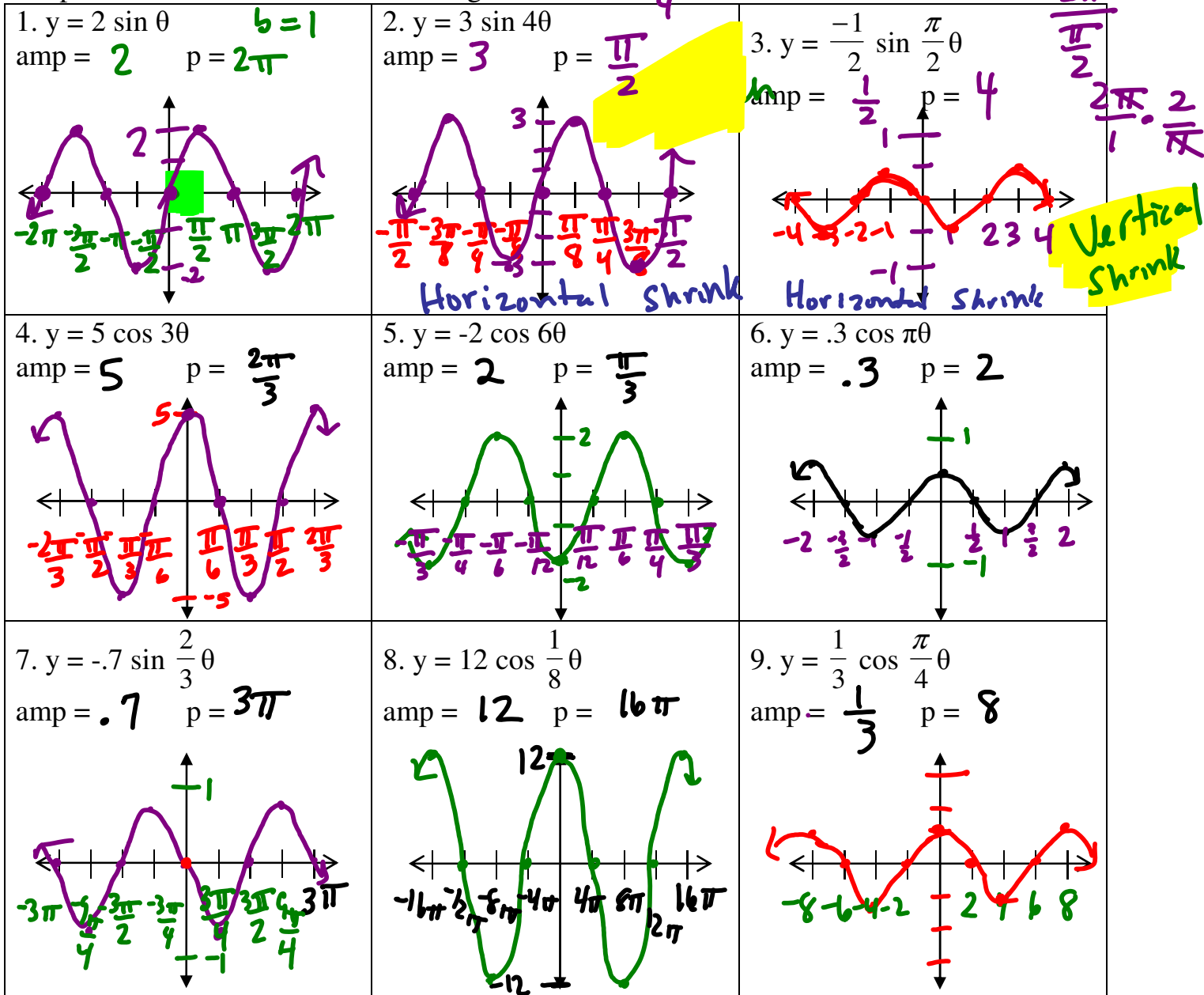


Memorize the following!!!!!!!!!!!!!!!!!!!!



$\frac{\pi}{2} \cdot \frac{1}{4}$

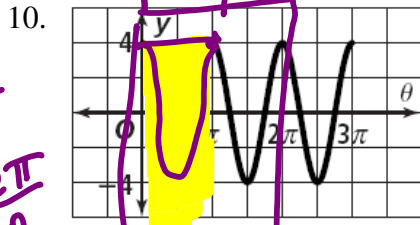
Graph TWO CYCLES of the following:



Trig Section 4.

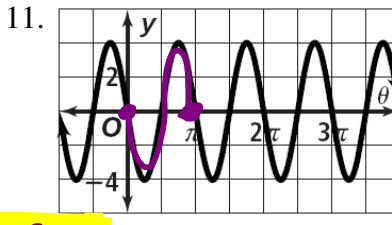
Name _____

Find the amplitude and period, then find b and write the equation that matches the graph.

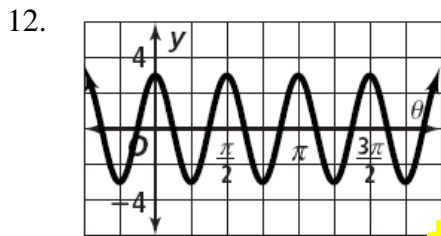


amp = 4
Period = π
b = 2

$4 \cos 2x$

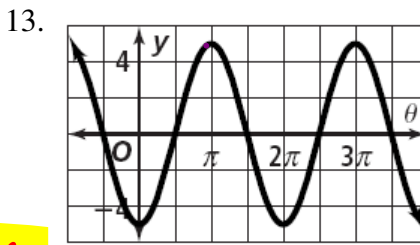


amp = 4
Period = π
b = 2



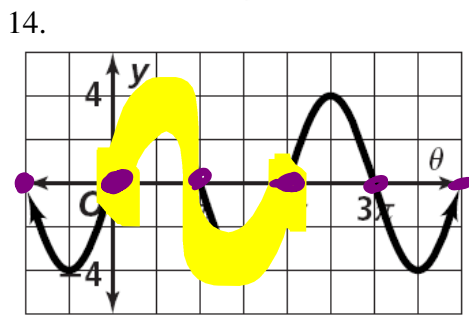
amp 3
Period = $\frac{\pi}{2}$
b = 4

$3 \cos 4x$

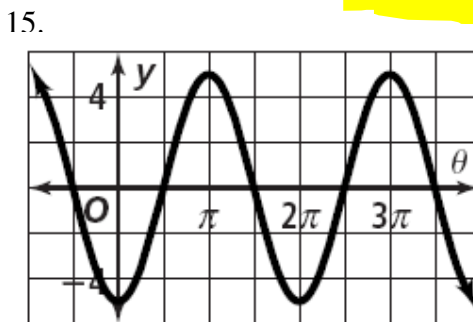


amp 5
Period = 2π
b = 1

Find the period and amplitude of each cosine function. Identify where the maximum value, minimum value, and zeros occur in the interval from _____



Period: 2π Amplitude: 4
Maximum: 4
Minimum: -4
Zeros: $0, \pi, 2\pi$



Period: 2π Amplitude: 5
Maximum: 5
Minimum: -5
Zeros: $\frac{\pi}{2}, \frac{3\pi}{2}$

Write a cosine function for each description, assume a is positive.

16. $a = 2\pi$, period = 3 17. $a = 7$, period = 2π 18. $a = 23$, period = $\frac{\pi}{2}$

$y = 2\pi \cos \frac{2\pi}{3}x$

$y = 7 \cos 1x$

$y = 23 \cos 4x$