

Pre Cal Honors Part 1 5 3 Cosine and Sine Graph and Function Analysis

Lesson 232 | Precalculus | Sine and cosine graphs

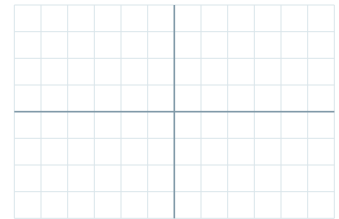
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Original practice aligned to the saved video title.

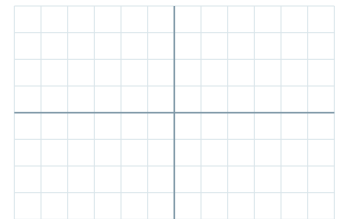
Name: _____ Date: _____ Show your reasoning.

01

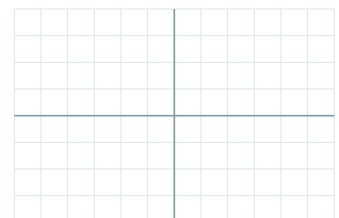
Analyze and sketch one cycle of $y=4\sin(7(x-(6))))+12$. Give amplitude, period, phase shift, midline, and five key points.

**02**

Analyze and sketch one cycle of $y=3\sin(2(x-(-8))))+6$. Give amplitude, period, phase shift, midline, and five key points.

**03**

Analyze and sketch one cycle of $y=2\sin(7(x-(-5))))+6$. Give amplitude, period, phase shift, midline, and five key points.



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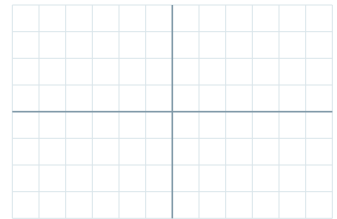
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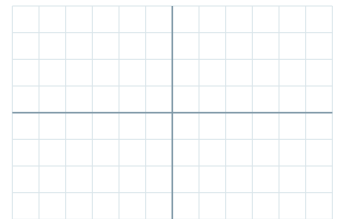
Name: _____ Date: _____ Show your reasoning.

04

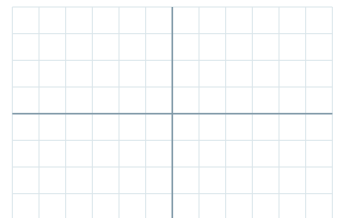
Analyze and sketch one cycle of $y=12\sin(7(x-(-5)))+14$. Give amplitude, period, phase shift, midline, and five key points.

**05**

Analyze and sketch one cycle of $y=7\sin(6(x-(-6)))+13$. Give amplitude, period, phase shift, midline, and five key points.

**06**

Analyze and sketch one cycle of $y=10\sin(4(x-(-3)))+2$. Give amplitude, period, phase shift, midline, and five key points.



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01

Analyze and sketch one cycle of $y=4\sin(7(x-6)))+12$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 4; period $2\pi/7$; shift 6; midline $y=12$. Start at $x=6$; use x-increments $\pi/14$. The five y-values are 12,16,12,8,12.

02

Analyze and sketch one cycle of $y=3\sin(2(x-(-8)))+6$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 3; period $2\pi/2$; shift -8; midline $y=6$. Start at $x=-8$; use x-increments $\pi/4$. The five y-values are 6,9,6,3,6.

03

Analyze and sketch one cycle of $y=2\sin(7(x-(-5)))+6$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 2; period $2\pi/7$; shift -5; midline $y=6$. Start at $x=-5$; use x-increments $\pi/14$. The five y-values are 6,8,6,4,6.

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04

Analyze and sketch one cycle of $y=12\sin(7(x-(-5)))+14$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 12; period $2\pi/7$; shift -5; midline $y=14$. Start at $x=-5$; use x-increments $\pi/14$. The five y-values are 14,26,14,2,14.

05

Analyze and sketch one cycle of $y=7\sin(6(x-(-6)))+13$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 7; period $2\pi/6$; shift -6; midline $y=13$. Start at $x=-6$; use x-increments $\pi/12$. The five y-values are 13,20,13,6,13.

06

Analyze and sketch one cycle of $y=10\sin(4(x-(-3)))+2$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 10; period $2\pi/4$; shift -3; midline $y=2$. Start at $x=-3$; use x-increments $\pi/8$. The five y-values are 2,12,2,-8,2.