

Pre-Calculus section 5.3. Review of Graphing Sine and Cosine Function with One Cycle ...

Lesson 167 | Trigonometry | Sine and cosine graphs

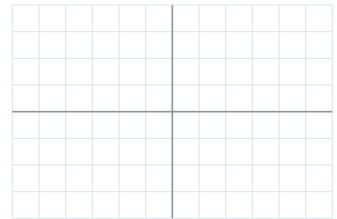
https://www.youtube.com/watch?v=9_Whu9GOVnI

Original practice aligned to the saved video title.

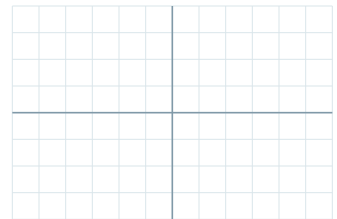
Name: _____ Date: _____ Show your reasoning.

01

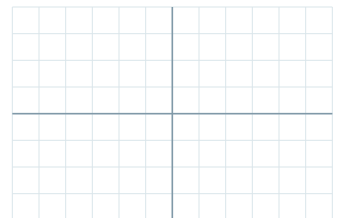
Analyze and sketch one cycle of $y=12\sin(7(x-9)))+13$. Give amplitude, period, phase shift, midline, and five key points.

**02**

Analyze and sketch one cycle of $y=6\sin(2(x-3)))+10$. Give amplitude, period, phase shift, midline, and five key points.

**03**

Analyze and sketch one cycle of $y=9\sin(3(x-(-7)))+6$. Give amplitude, period, phase shift, midline, and five key points.



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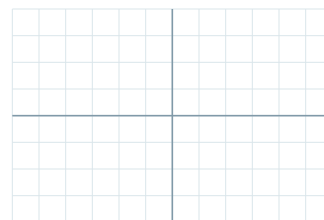
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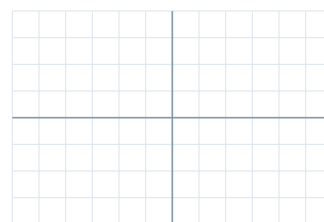
Name: _____ Date: _____ Show your reasoning.

04

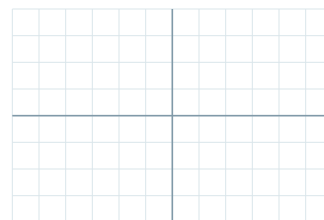
Analyze and sketch one cycle of $y=14\sin(2(x-(2)))+13$. Give amplitude, period, phase shift, midline, and five key points.

**05**

Analyze and sketch one cycle of $y=13\sin(2(x-(-9)))+11$. Give amplitude, period, phase shift, midline, and five key points.

**06**

Analyze and sketch one cycle of $y=4\sin(2(x-(-8)))+5$. Give amplitude, period, phase shift, midline, and five key points.



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- 01** Analyze and sketch one cycle of $y=12\sin(7(x-9)))+13$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 12; period $2\pi/7$; shift 9; midline $y=13$. Start at $x=9$; use x-increments $\pi/14$. The five y-values are 13,25,13,1,13.

- 02** Analyze and sketch one cycle of $y=6\sin(2(x-3)))+10$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 6; period $2\pi/2$; shift 3; midline $y=10$. Start at $x=3$; use x-increments $\pi/4$. The five y-values are 10,16,10,4,10.

- 03** Analyze and sketch one cycle of $y=9\sin(3(x-(-7)))+6$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 9; period $2\pi/3$; shift -7; midline $y=6$. Start at $x=-7$; use x-increments $\pi/6$. The five y-values are 6,15,6,-3,6.

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- 04** Analyze and sketch one cycle of $y=14\sin(2(x-(2)))+13$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 14; period $2\pi/2$; shift 2; midline $y=13$. Start at $x=2$; use x-increments $\pi/4$. The five y-values are 13,27,13,-1,13.

- 05** Analyze and sketch one cycle of $y=13\sin(2(x-(-9)))+11$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 13; period $2\pi/2$; shift -9; midline $y=11$. Start at $x=-9$; use x-increments $\pi/4$. The five y-values are 11,24,11,-2,11.

- 06** Analyze and sketch one cycle of $y=4\sin(2(x-(-8)))+5$. Give amplitude, period, phase shift, midline, and five key points.

Amplitude 4; period $2\pi/2$; shift -8; midline $y=5$. Start at $x=-8$; use x-increments $\pi/4$. The five y-values are 5,9,5,1,5.