

## WebAssign

## ALGEBRA AND CALCULUS, Section 5.3 (Homework)

Mashael Nasser Al Thani  
 MATH-UA 9 ALGEBRA AND CALCULUS, section 16, Fall 2011  
 Instructor: Jordan Ezra Fisher

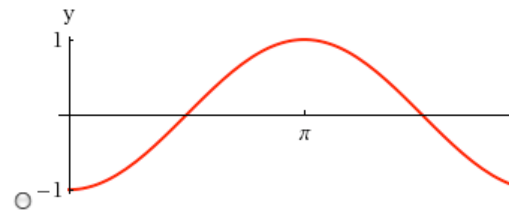
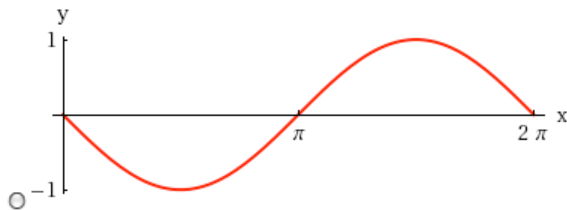
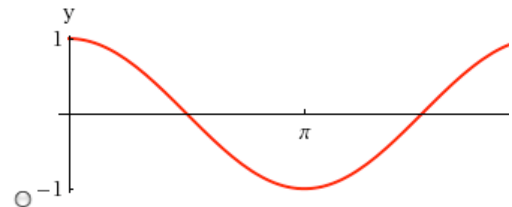
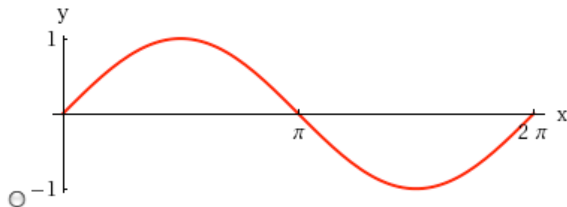
Current Score : - / 77 Due : Monday, December 5 2011 11:59 PM EST

1. -/4 points

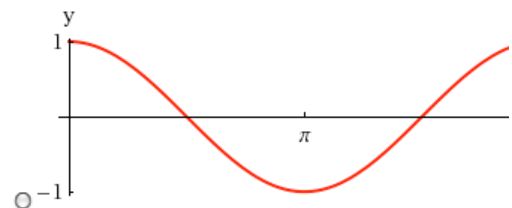
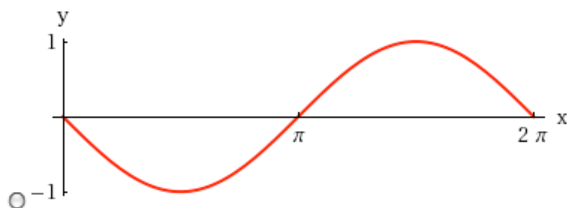
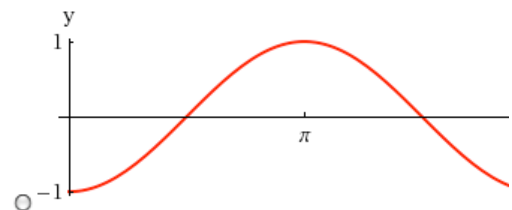
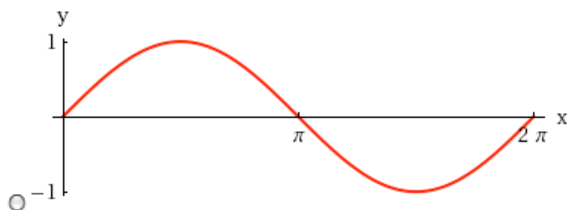
SPreCalc6 5.3.001.

The trigonometric functions  $y = \sin x$  and  $y = \cos x$  have amplitude  and period . Sketch a graph of each function on the interval  $[0, 2\pi]$ .

$$y = \sin x$$



$$y = \cos x$$



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2. -/2 points

SPreCalc6 5.3.002.

The trigonometric function  $y = 9 \sin 2x$  has amplitude and period .

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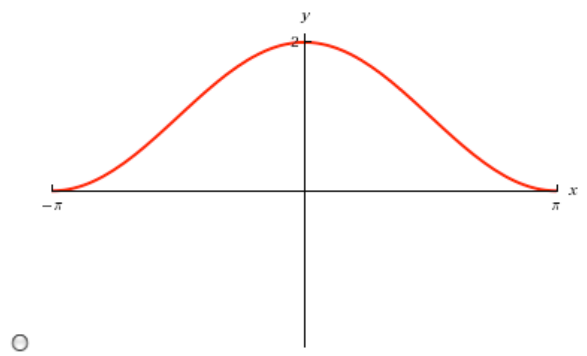
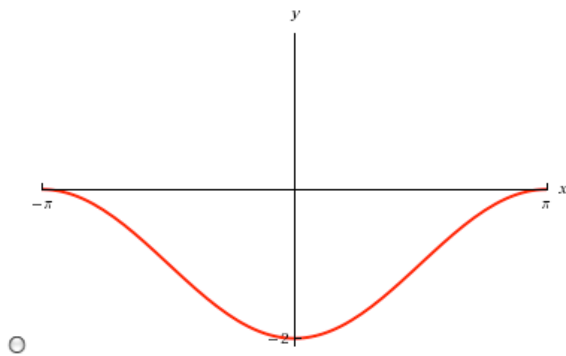
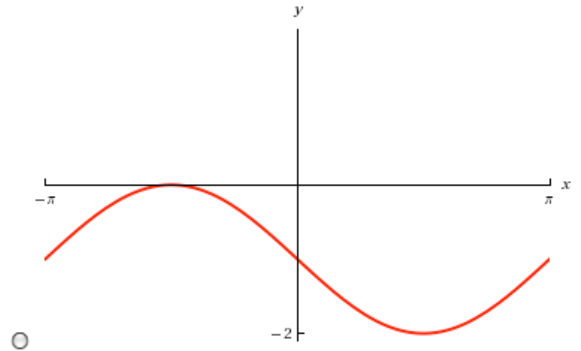
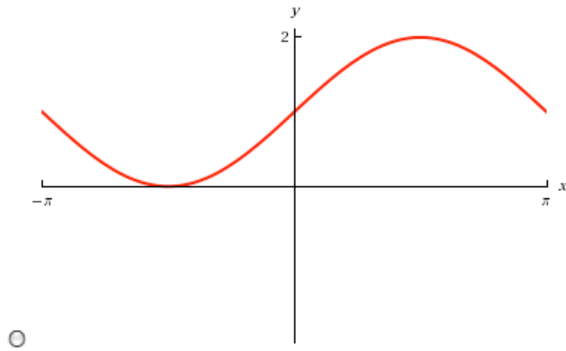
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3. -/1 points

SPreCalc6 5.3.003.

Graph the function.

$$f(x) = 1 + \cos x$$



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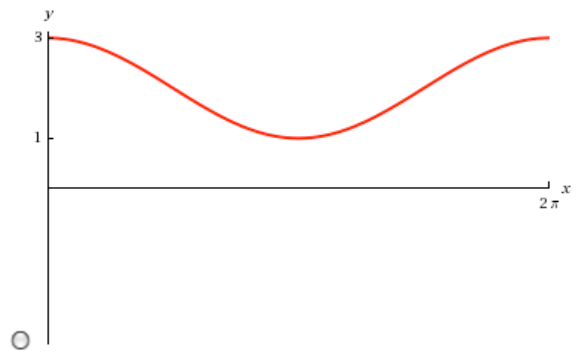
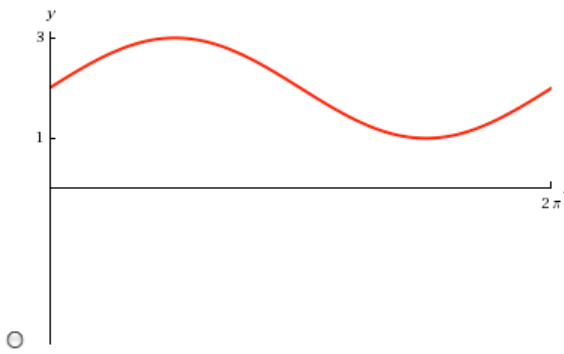
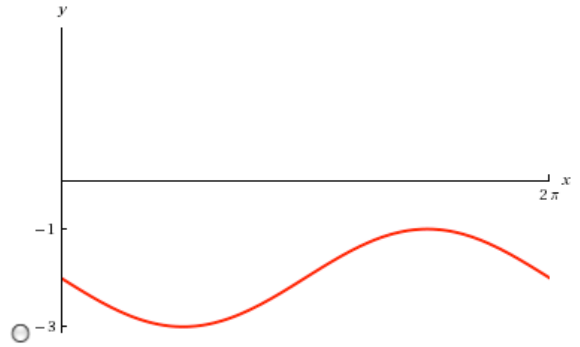
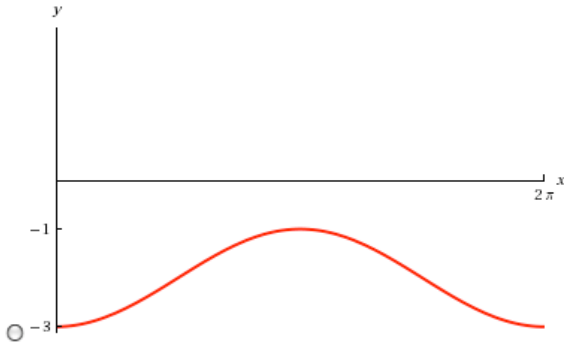
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4. -/1 points

SPreCalc6 5.3.004.

Graph the function.

$$f(x) = 2 + \sin x$$



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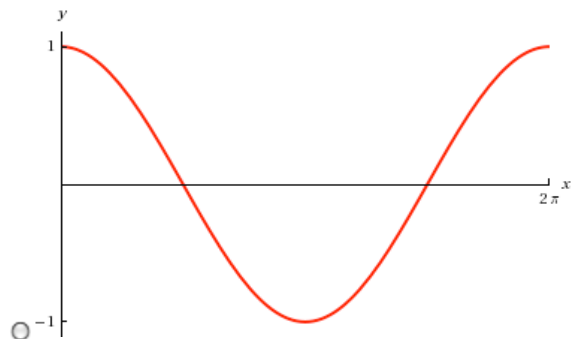
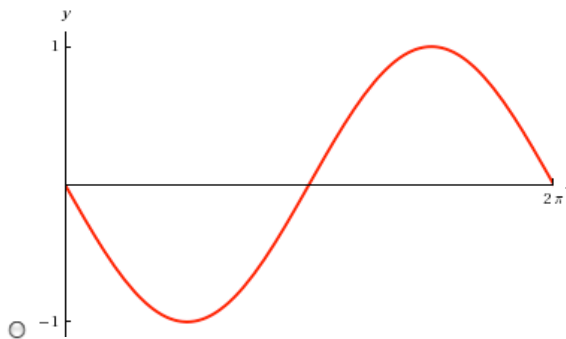
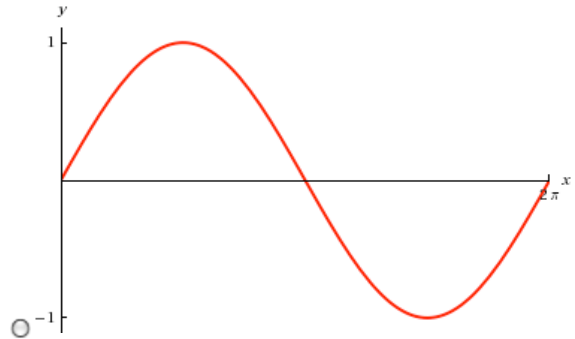
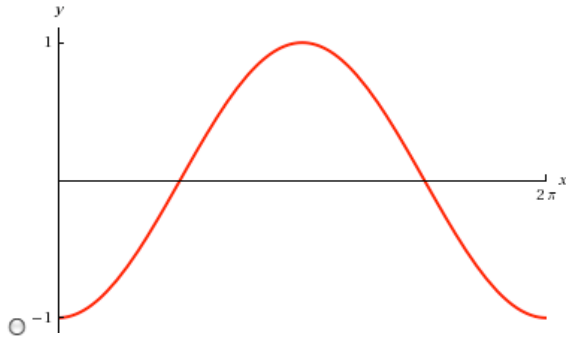
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5. -/1 points

SPreCalc6 5.3.005.

Graph the function.

$$f(x) = -\sin x$$

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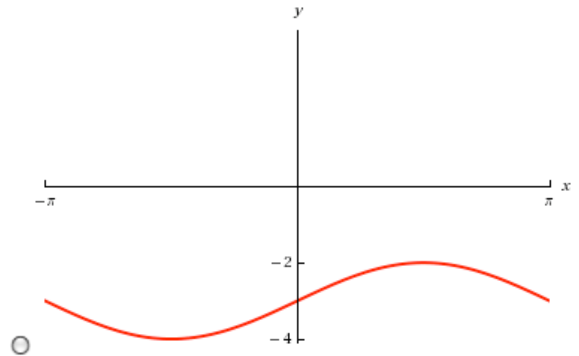
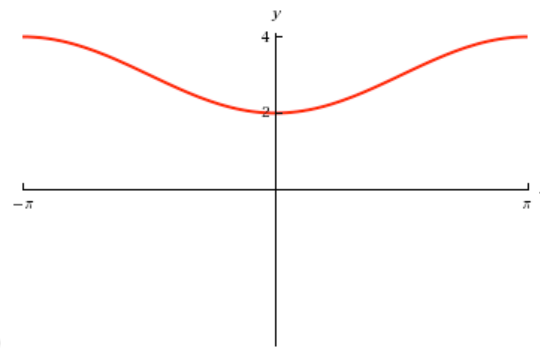
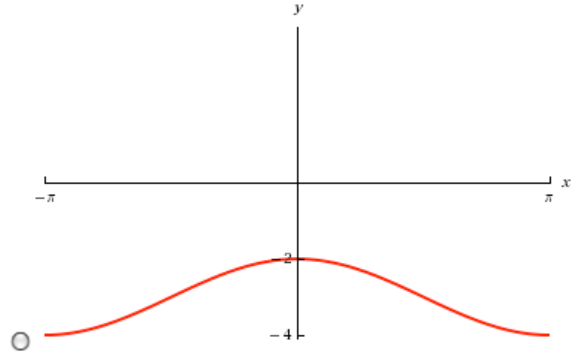
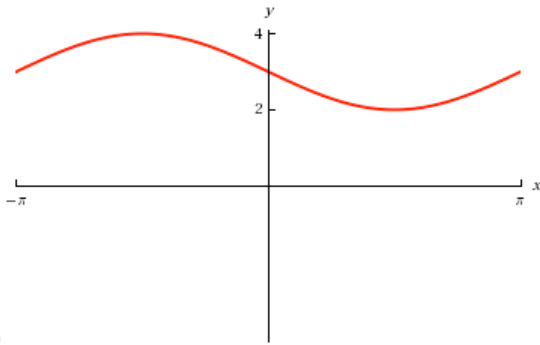
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6. -/1 points

SPreCalc6 5.3.006.

Graph the function.

$$f(x) = 3 - \cos x$$



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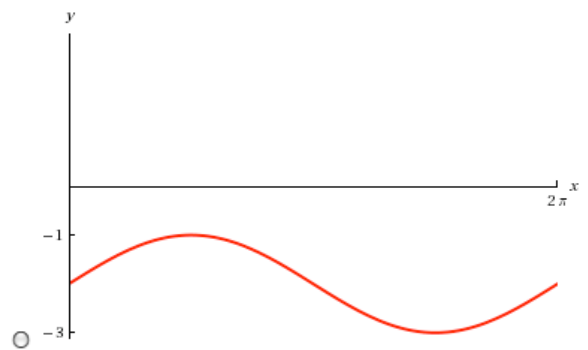
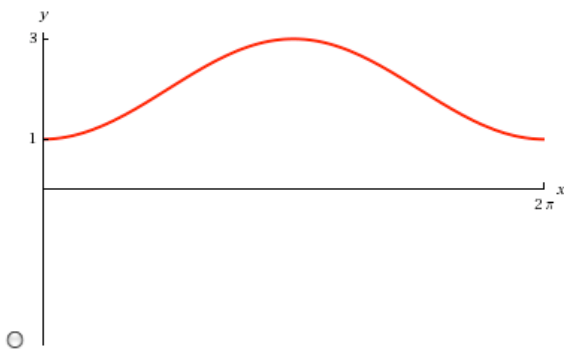
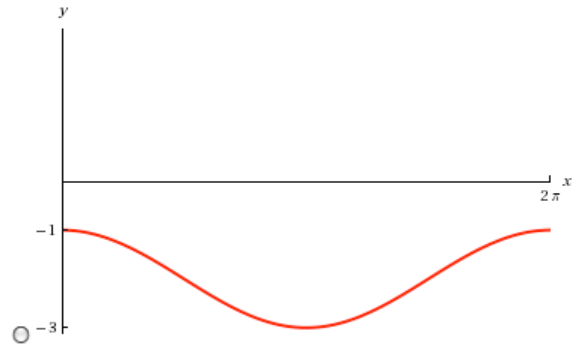
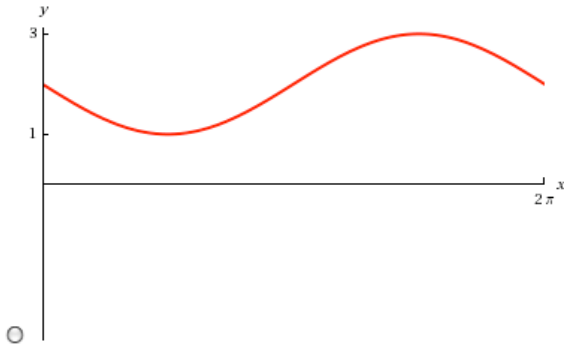
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7. -1 points

SPreCalc6 5.3.007.

Graph the function.

$$f(x) = -2 + \sin x$$



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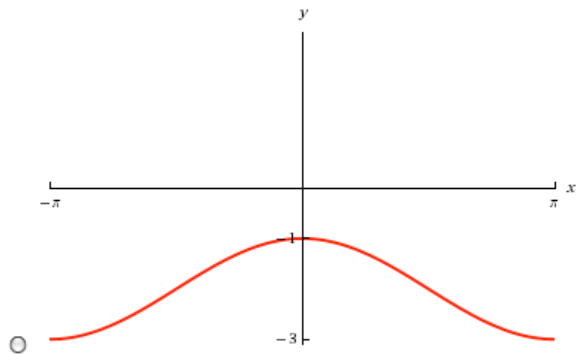
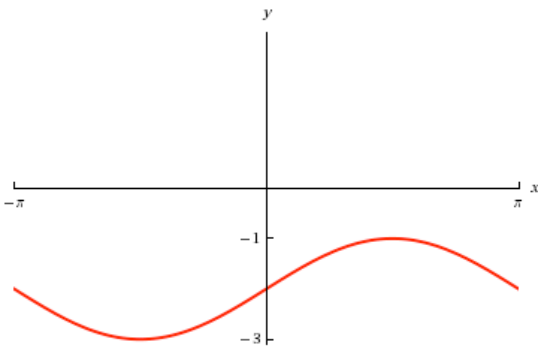
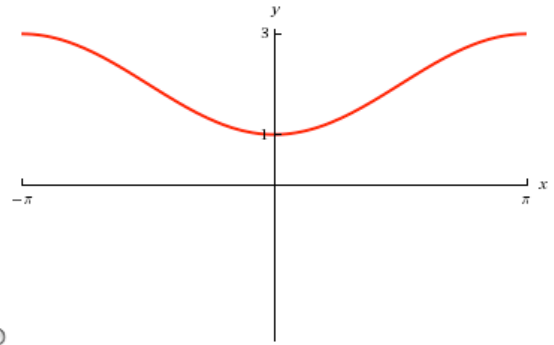
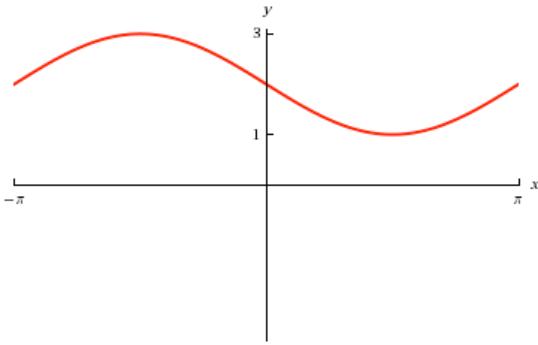
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8. -/1 points

SPreCalc6 5.3.008.

Graph the function.

$$f(x) = -2 + \cos x$$



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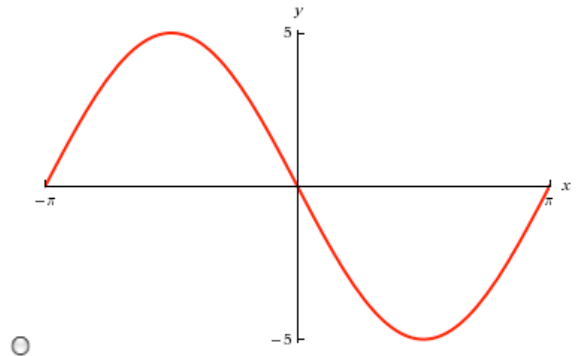
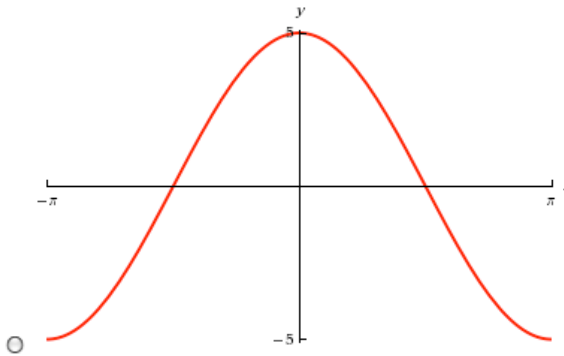
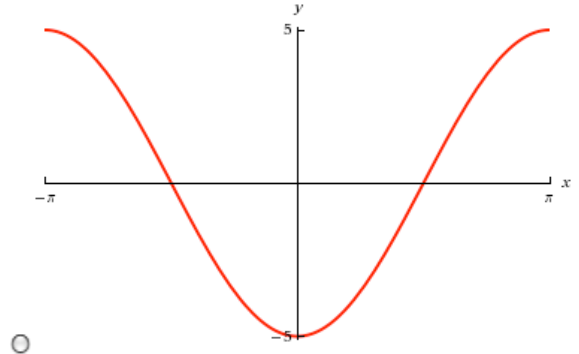
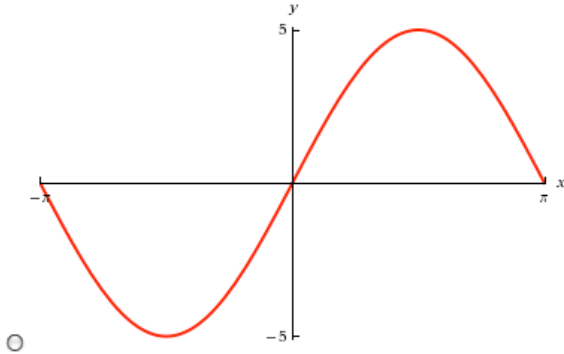
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9. -/1 points

SPreCalc6 5.3.009.

Graph the function.

$$g(x) = 5 \cos x$$



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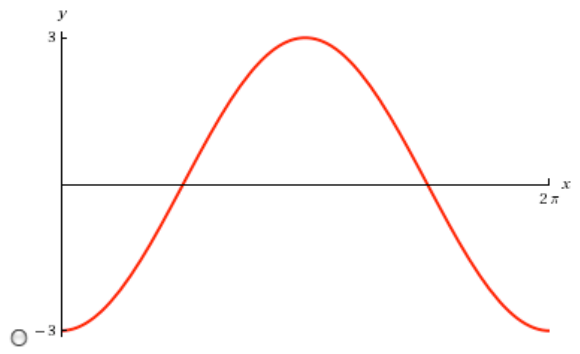
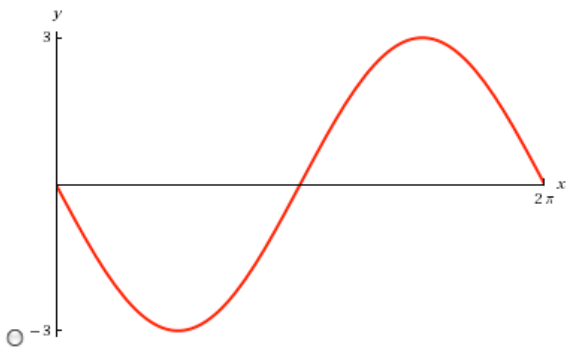
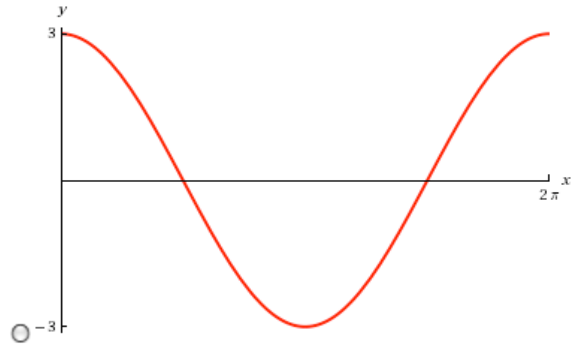
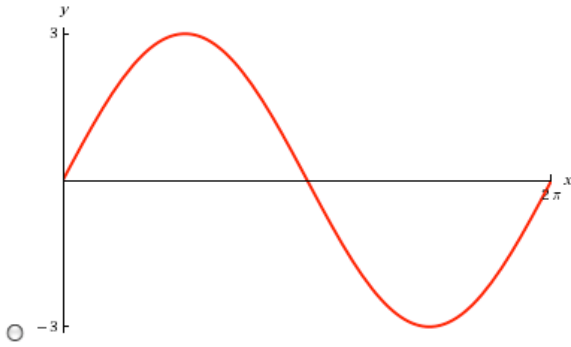


10. /1 points

SPreCalc6 5.3.010.

Graph the function.

$$g(x) = 3 \sin x$$



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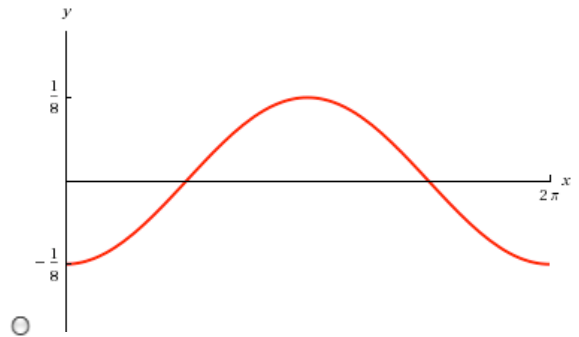
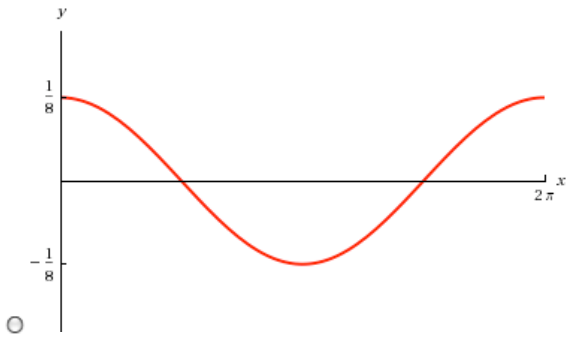
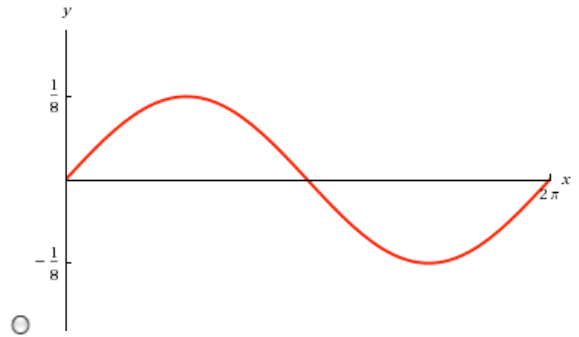
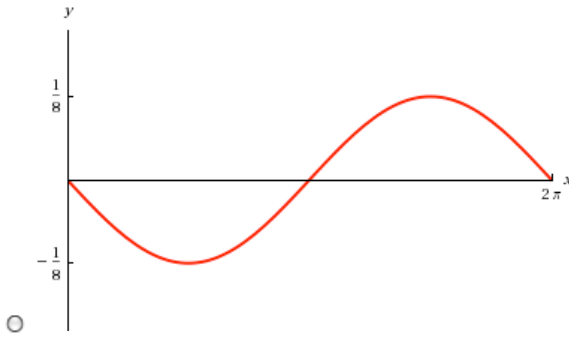
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11. -/1 points

SPreCalc6 5.3.011.

Graph the function.

$$g(x) = -\frac{1}{8} \sin x$$



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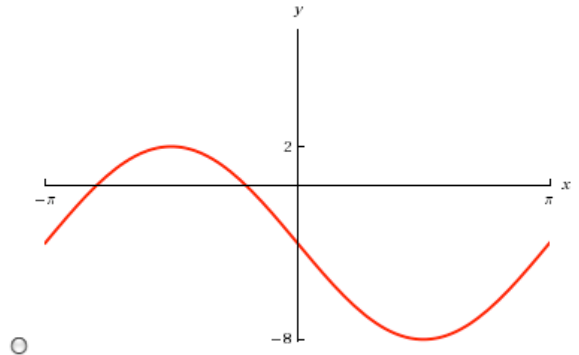
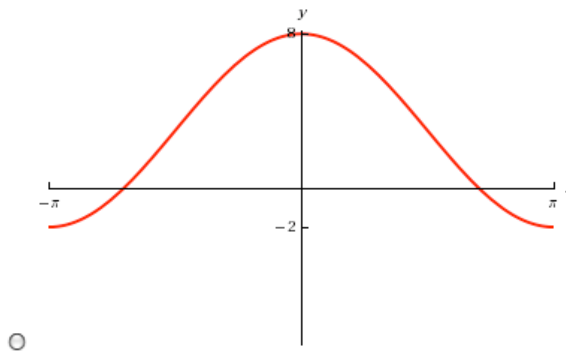
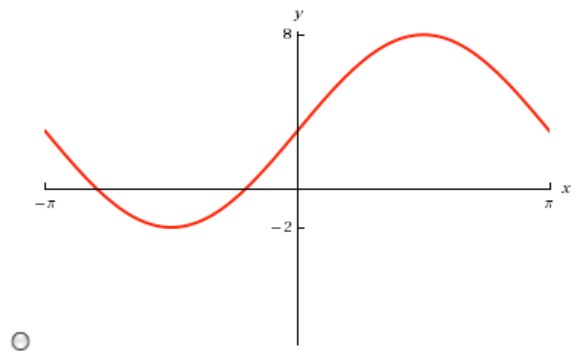
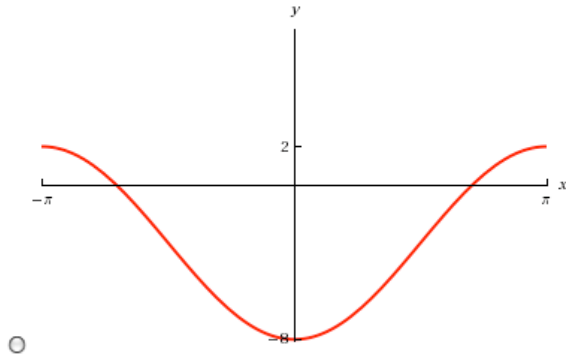
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12. -/1 points

SPreCalc6 5.3.013.

Graph the function.

$$g(x) = 3 + 5 \cos x$$



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13. -/3 points

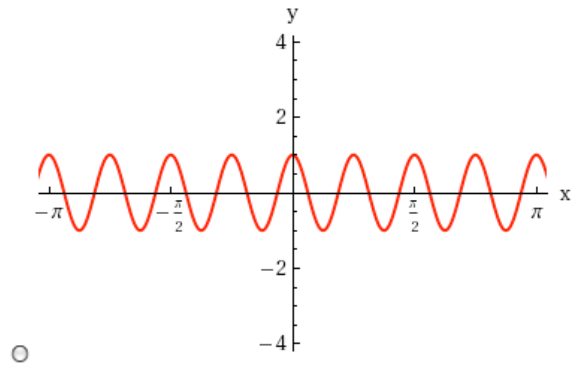
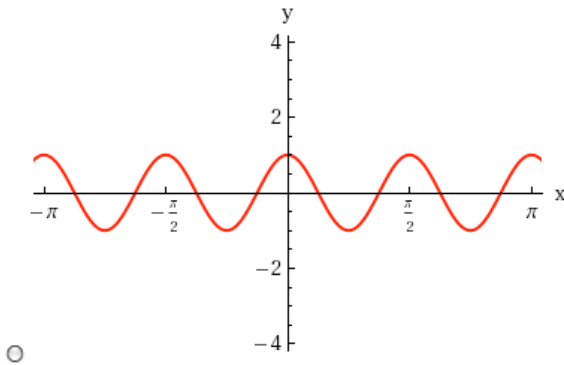
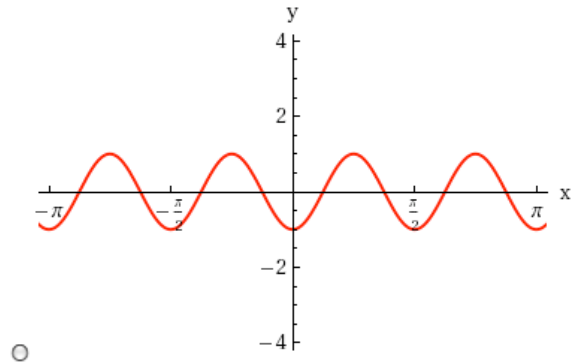
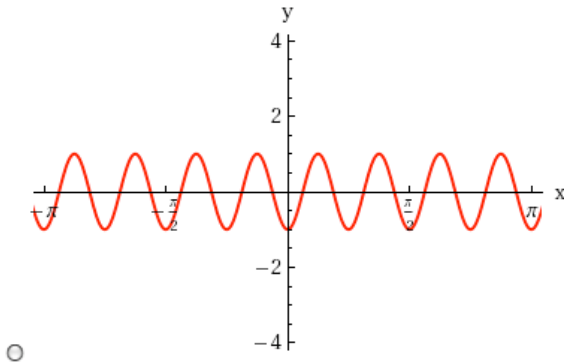
SPreCalc6 5.3.017.

Find the amplitude and period of the function, and sketch its graph.

$$y = \cos 8x$$

 (amplitude)

(period)



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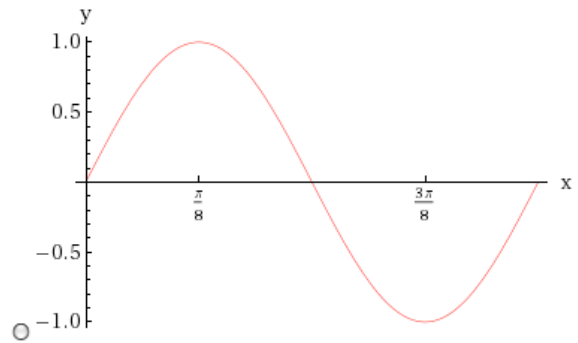
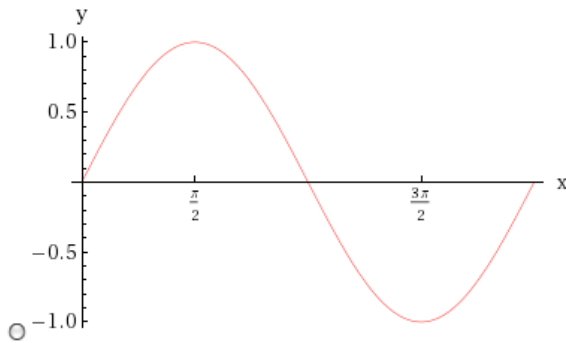
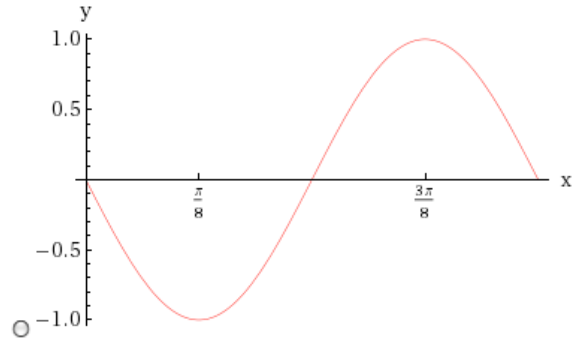
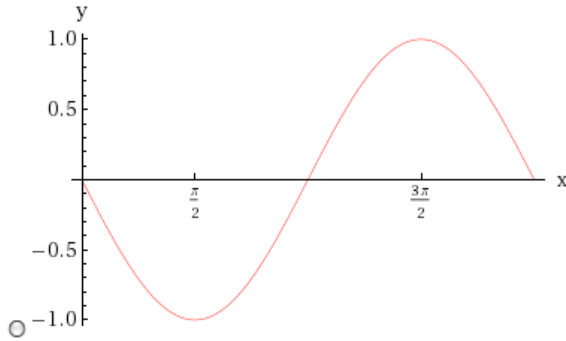
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14. /3 points

SPreCalc6 5.3.018.

Find the amplitude and period of the function, and sketch its graph.

$$y = -\sin 4x$$

 (amplitude) (period)

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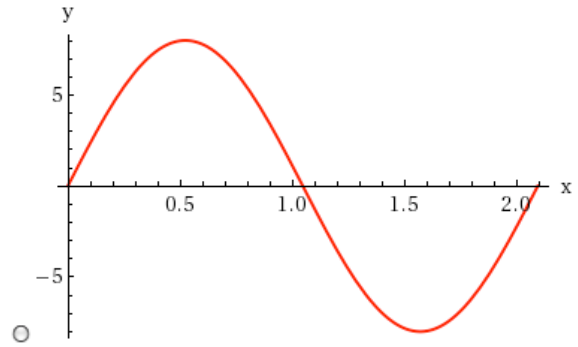
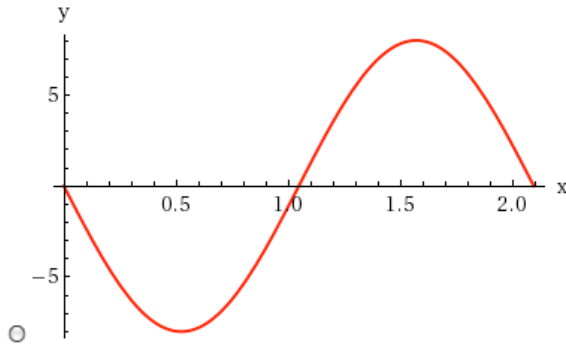
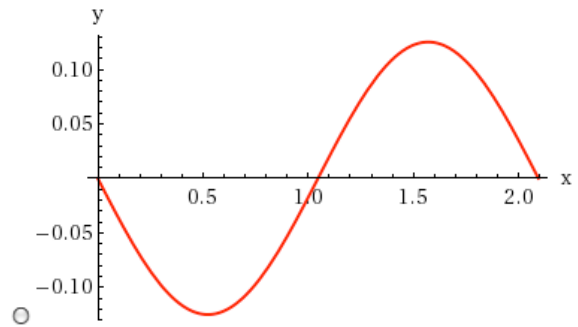
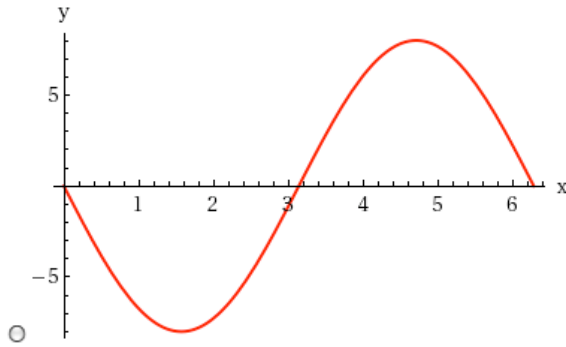
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15. /3 points

SPreCalc6 5.3.019.

Find the amplitude and period of the function, and sketch its graph.

$$y = -8 \sin 3x$$

 (amplitude) (period)

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16. /3 points

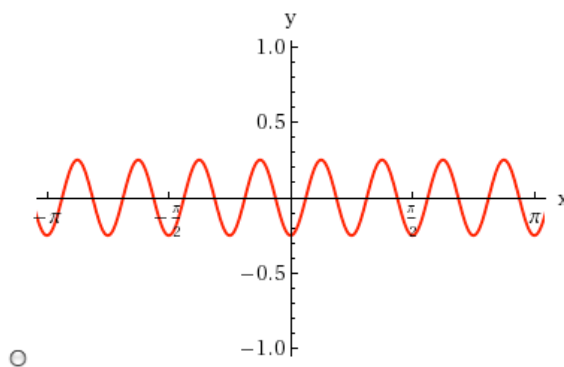
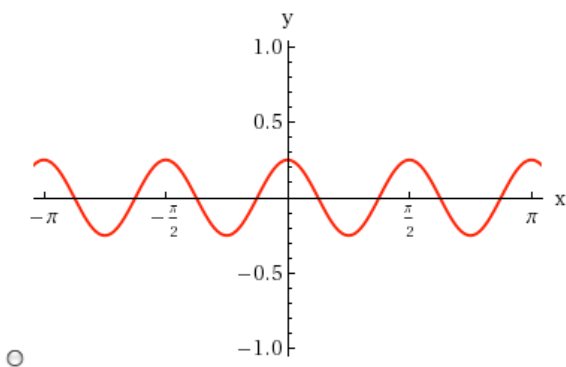
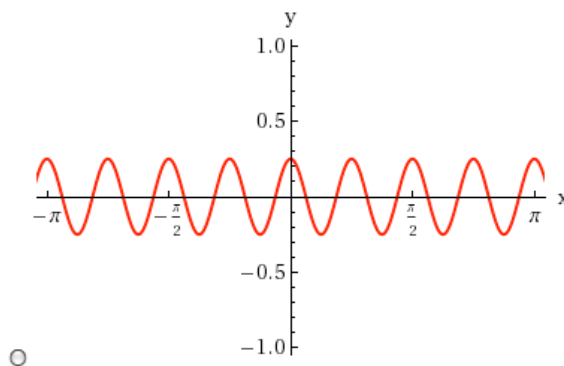
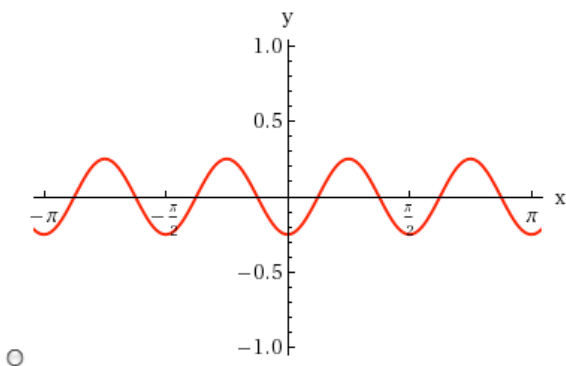
SPreCalc6 5.3.020.

Find the amplitude and period of the function, and sketch its graph.

$$y = \frac{1}{4} \cos 4x$$

 (amplitude)

(period)



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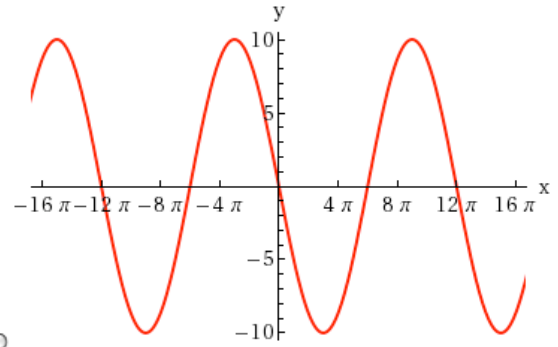
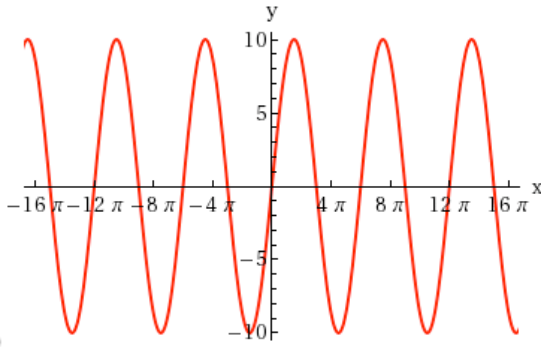
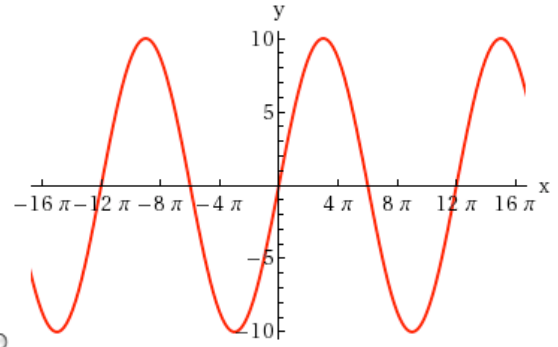
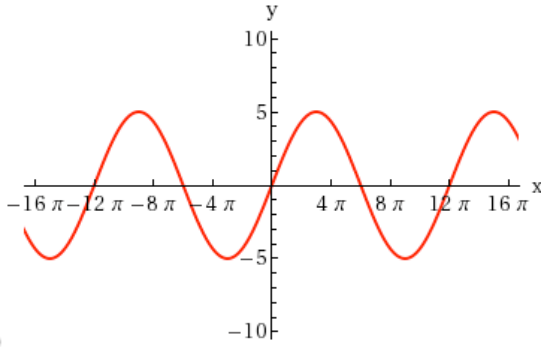
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17.-/3 points

SPreCalc6 5.3.021.

Find the amplitude and period of the function, and sketch its graph.

$$y = 10 \sin \frac{1}{6}x$$

 (amplitude)  
 (period)


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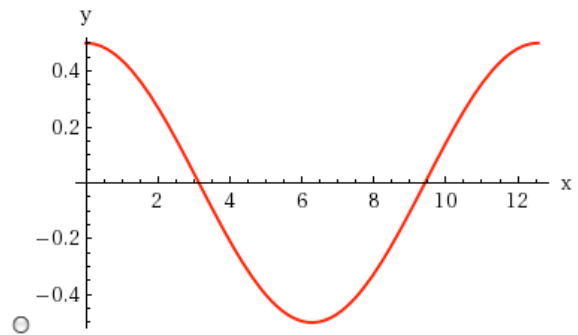
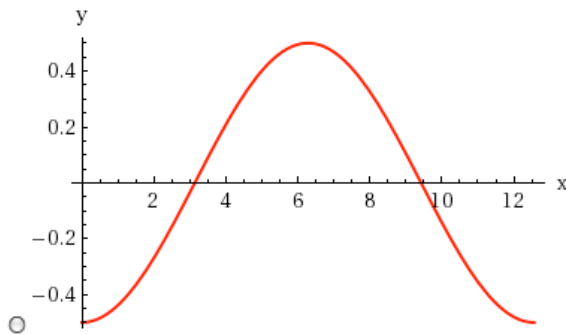
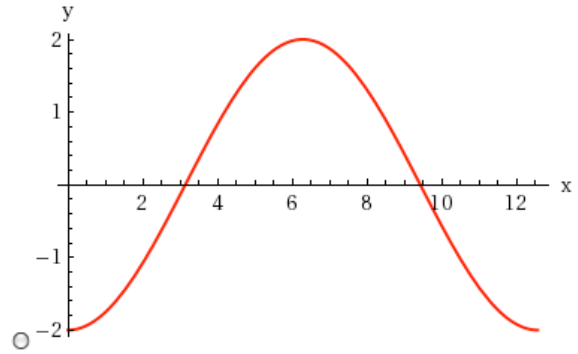
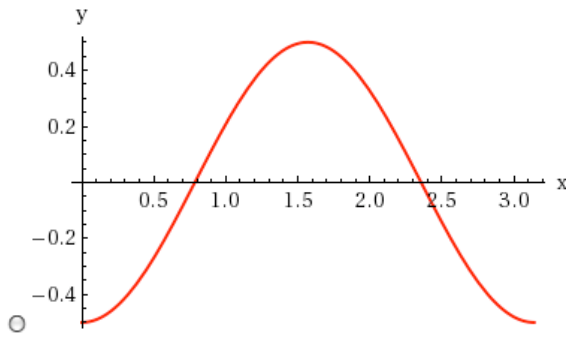


18. /3 points

SPreCalc6 5.3.023.

Find the amplitude and period of the function, and sketch its graph.

$$y = -\frac{1}{2} \cos \frac{1}{2}x$$

 (amplitude)  
 (period)


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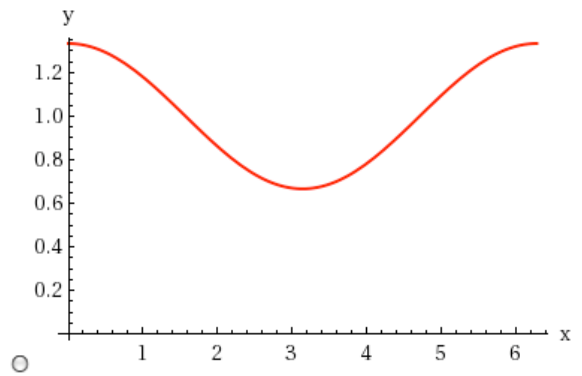
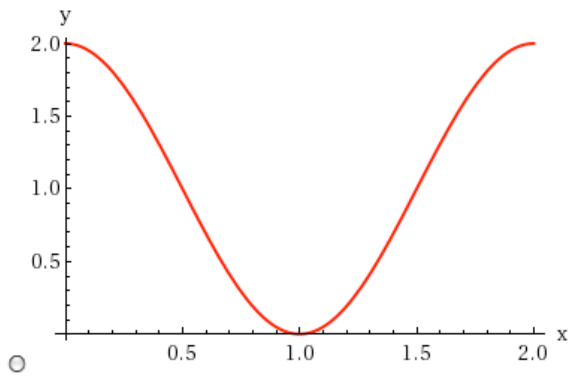
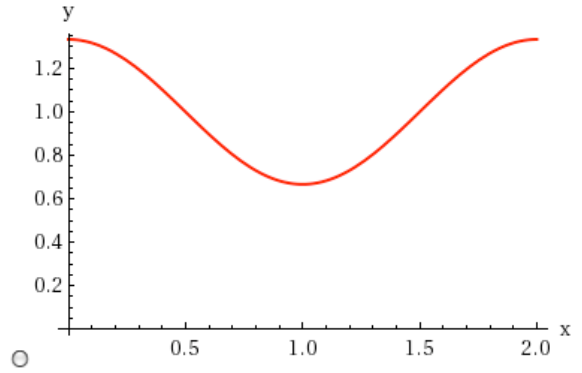
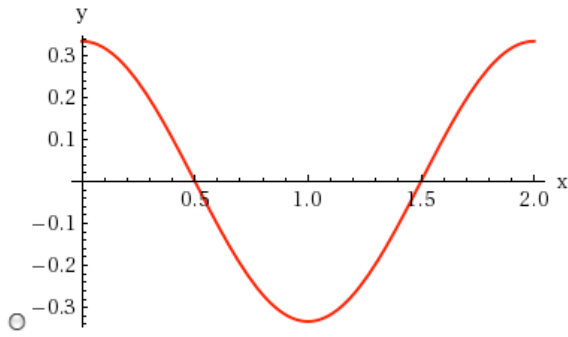
19. /3 points

SPreCalc6 5.3.027.

Find the amplitude and period of the function, and sketch its graph.

$$y = 1 + \frac{1}{3} \cos \pi x$$

(amplitude)  
(period)



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SPreCalc6 5.3.029.

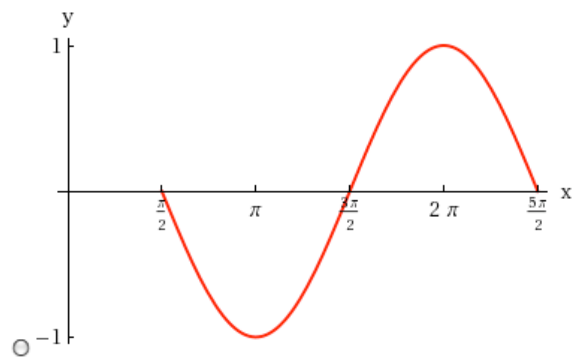
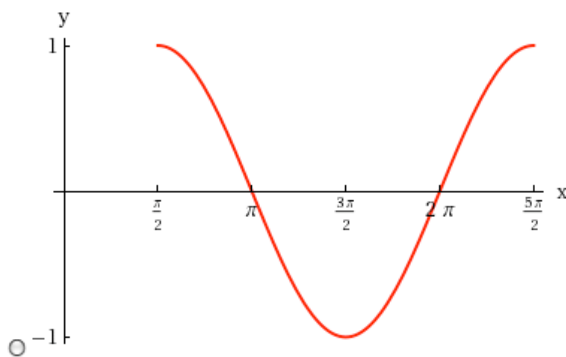
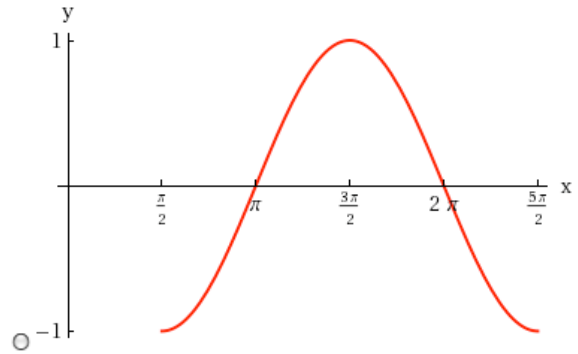
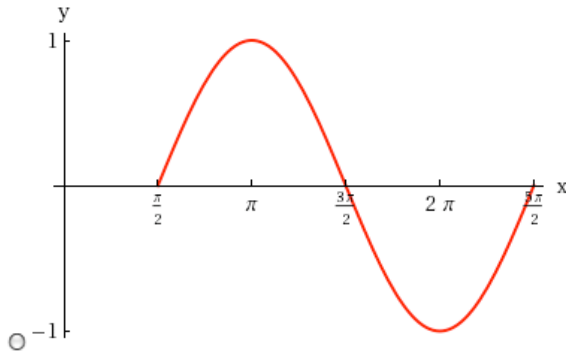
Find the amplitude, period, and phase shift of the function, and graph one complete period.

$$y = \cos\left(x - \frac{\pi}{2}\right)$$

 (amplitude)

(period)

(phase shift)



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21. /4 points

SPreCalc6 5.3.030.

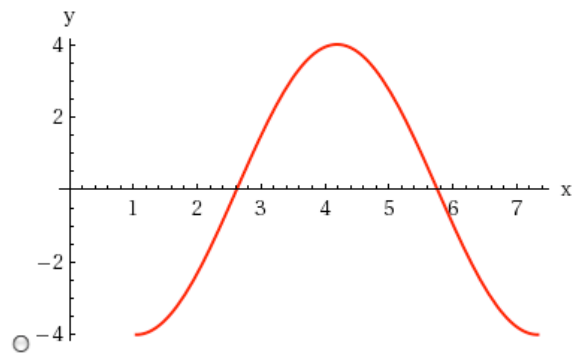
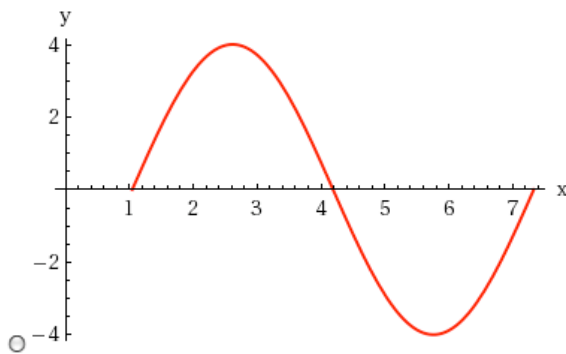
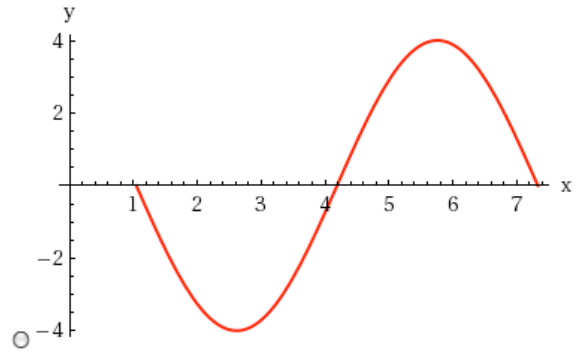
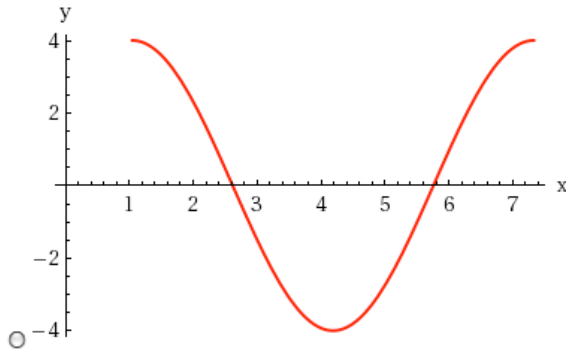
Find the amplitude, period, and phase shift of the function, and graph one complete period.

$$y = 4 \sin\left(x - \frac{\pi}{3}\right)$$

 (amplitude)

(period)

(phase shift)



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22. /4 points

SPreCalc6 5.3.031.

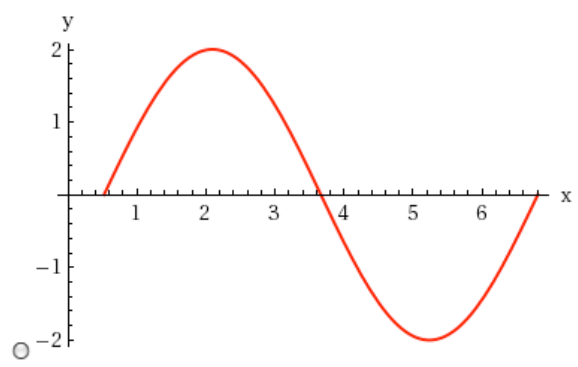
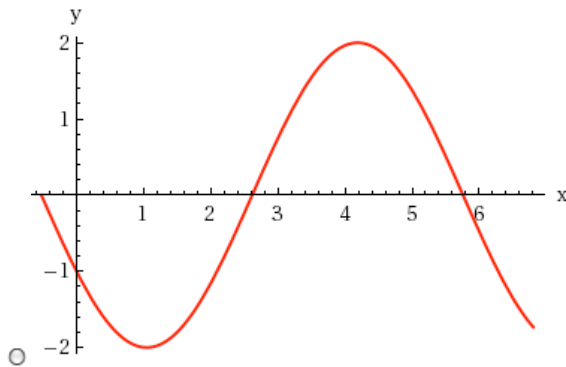
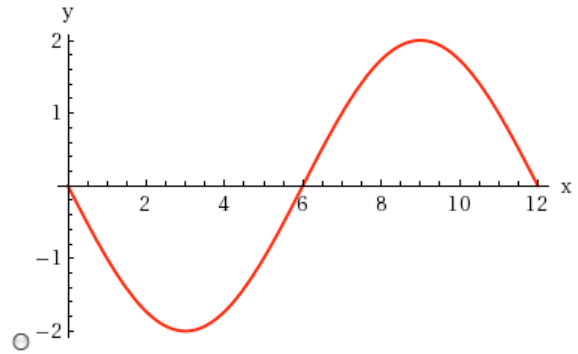
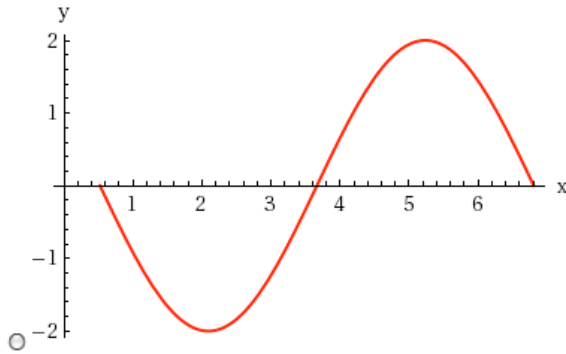
Find the amplitude, period, and phase shift of the function, and graph one complete period.

$$y = -2 \sin\left(x - \frac{\pi}{6}\right)$$

 (amplitude)

(period)

(phase shift)



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23. -/4 points

SPreCalc6 5.3.035.

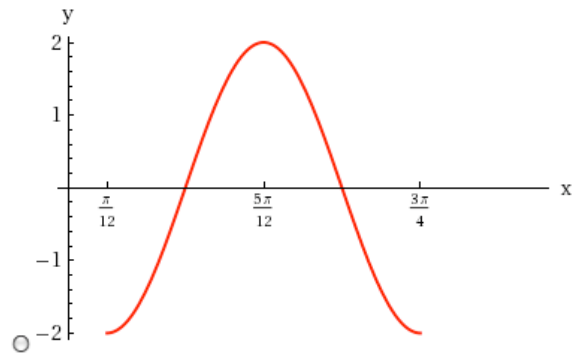
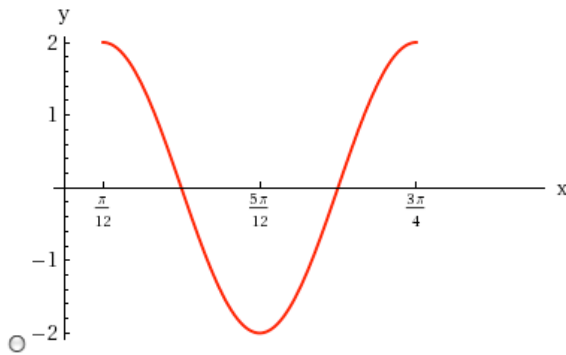
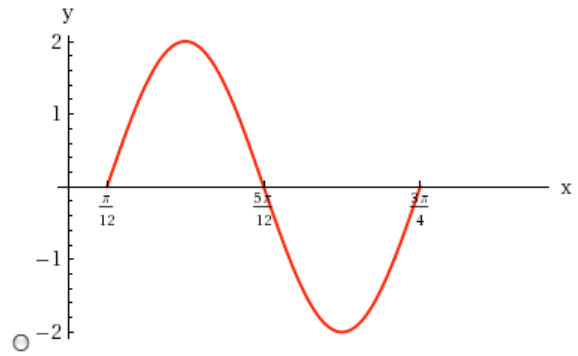
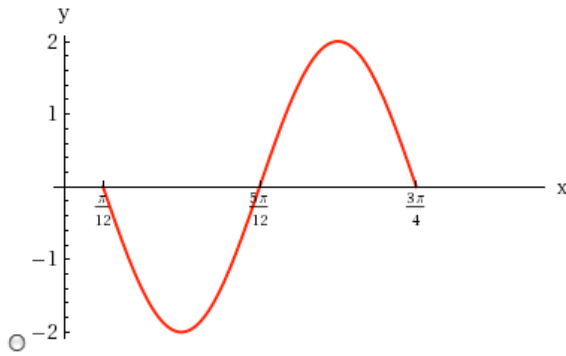
Find the amplitude, period, and phase shift of the function, and graph one complete period.

$$y = 2 \cos\left(3x - \frac{\pi}{4}\right)$$

 (amplitude)

(period)

(phase shift)



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24. /4 points

SPreCalc6 5.3.037.

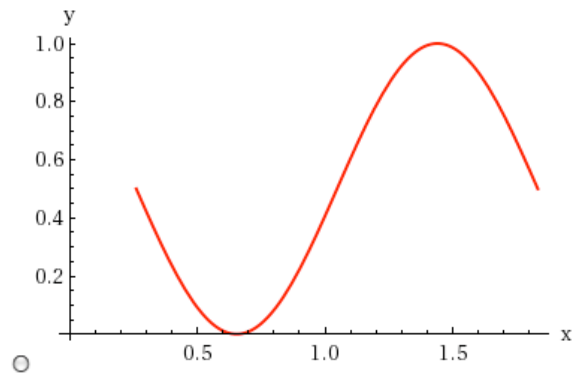
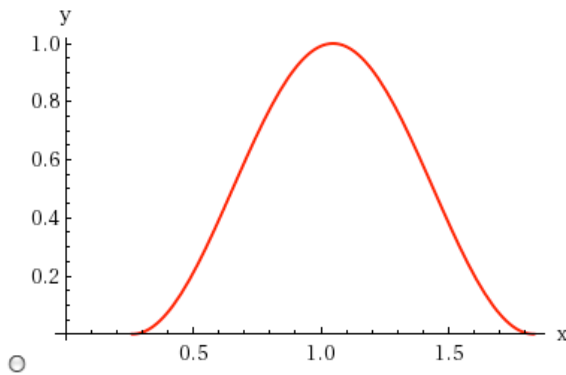
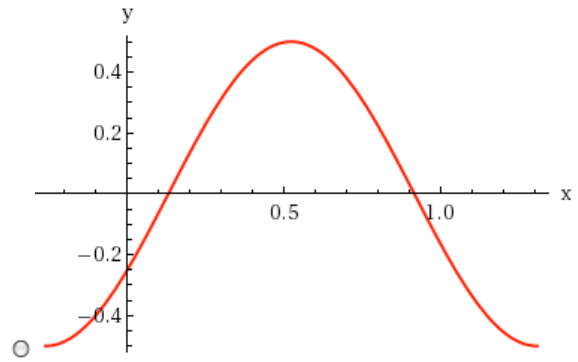
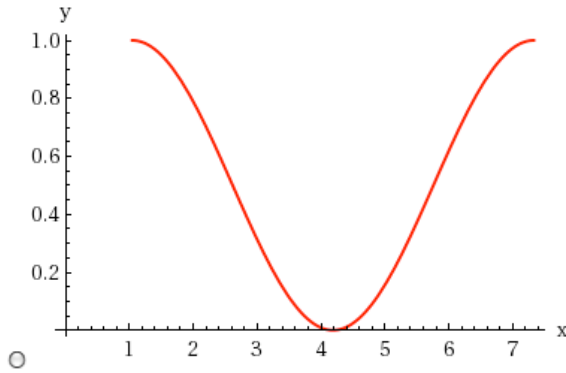
Find the amplitude, period, and phase shift of the function, and graph one complete period.

$$y = \frac{1}{2} - \frac{1}{2} \cos\left(4x - \frac{\pi}{3}\right)$$

 (amplitude)

(period)

(phase shift)



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25. /4 points

SPreCalc6 5.3.040.

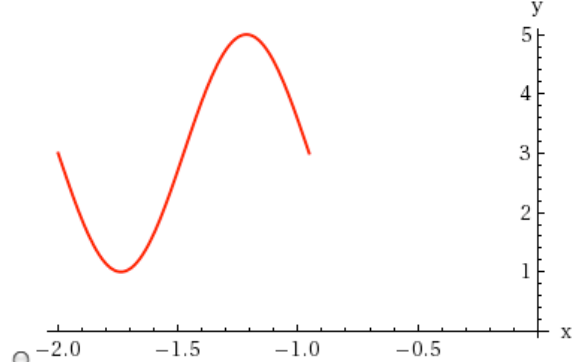
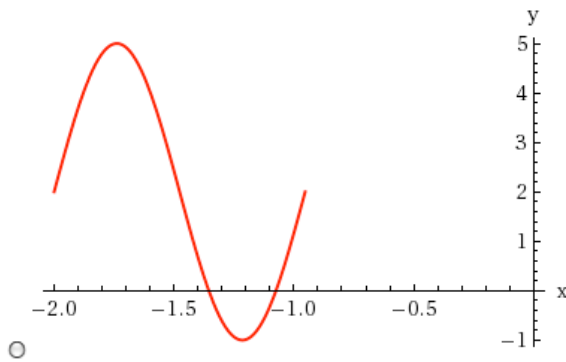
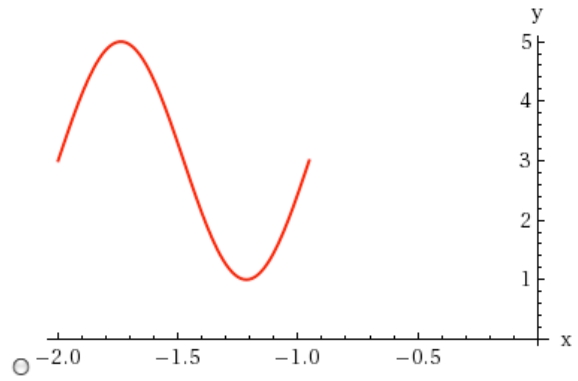
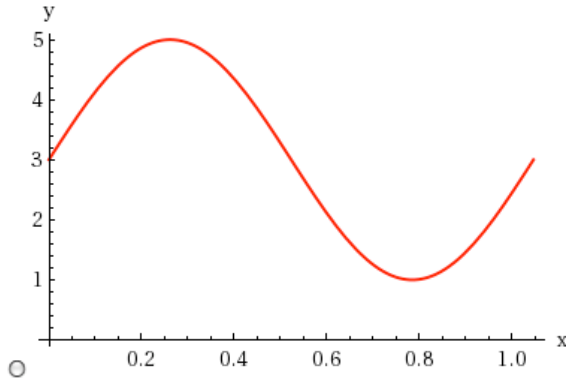
Find the amplitude, period, and phase shift of the function, and graph one complete period.

$$y = 3 + 2 \sin 6(x + 2)$$

 (amplitude)

(period)

(phase shift)



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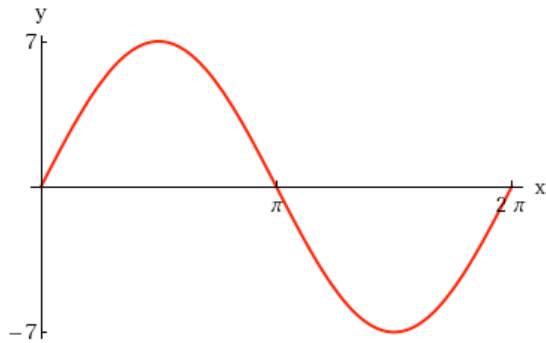
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26. -/4 points

sprecalc6 5.3.043.nva

The graph of one complete period of a sine curve is given.



(a) Find the amplitude, period, and phase shift. (Assume the absolute value of the phase shift is less than the period.)

amplitude

period

phase shift

(b) Write an equation that represents the curve in the form

$$y = a \sin k(x - b).$$

Need Help?

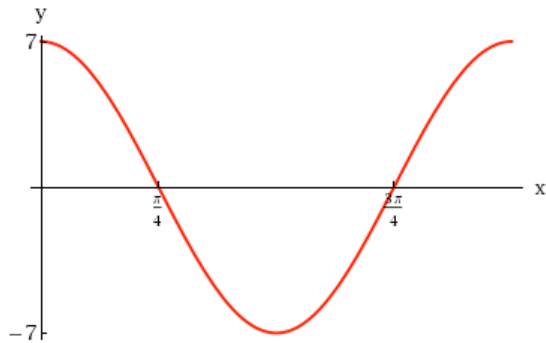
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27. -/4 points

sprecalc6 5.3.044.nva

The graph of one complete period of a cosine curve is given.



(a) Find the amplitude, period, and phase shift. (Assume the absolute value of the phase shift is less than the period.)

amplitude

period

phase shift

(b) Write an equation that represents the curve in the form

$$y = a \cos k(x - b).$$

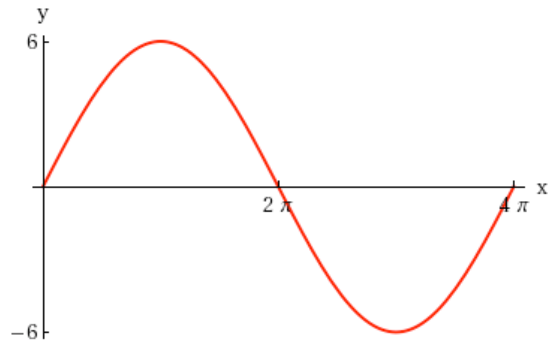
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28. -/4 points

sprecalc6 5.3.046.nva

The graph of one complete period of a sine curve is given.



(a) Find the amplitude, period, and phase shift. (Assume the absolute value of the phase shift is less than the period.)

amplitude

period

phase shift

(b) Write an equation that represents the curve in the form

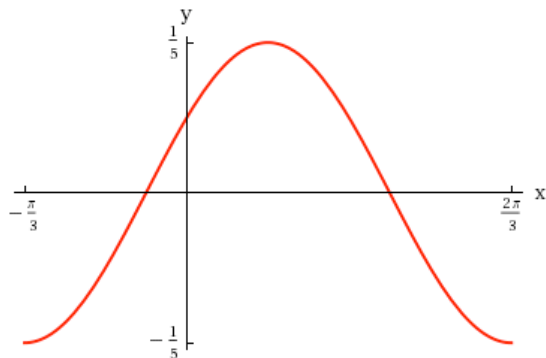
$$y = a \sin k(x - b).$$

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29. -/4 points

sprecalc6 5.3.047.nva

The graph of one complete period of a cosine curve is given.



(a) Find the amplitude, period, and phase shift. (Assume the absolute value of the phase shift is less than the period.)

amplitude

period

phase shift

(b) Write an equation that represents the curve in the form

$$y = a \cos k(x - b).$$

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