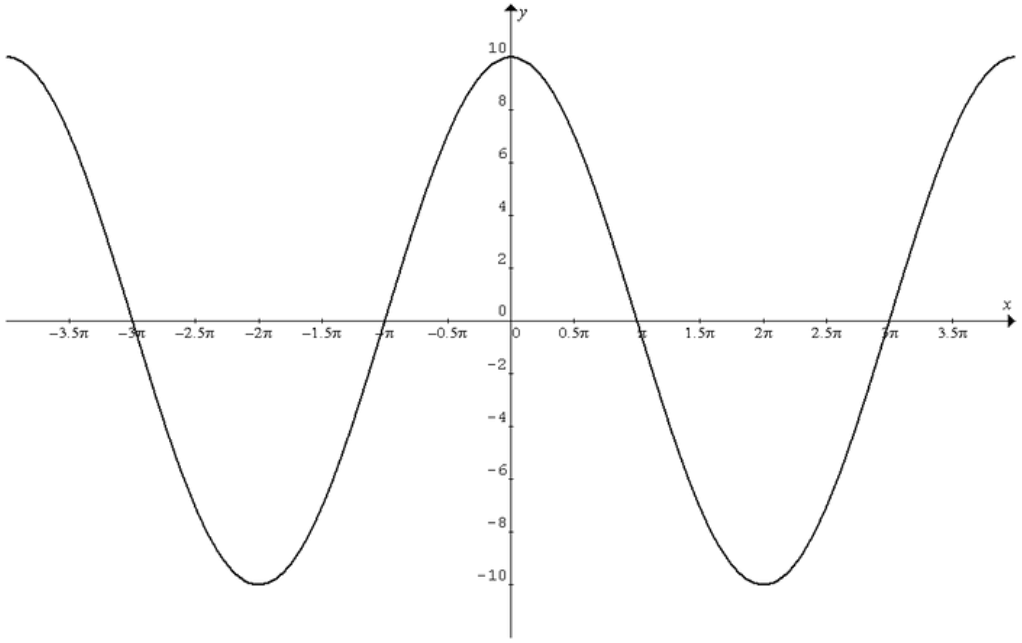
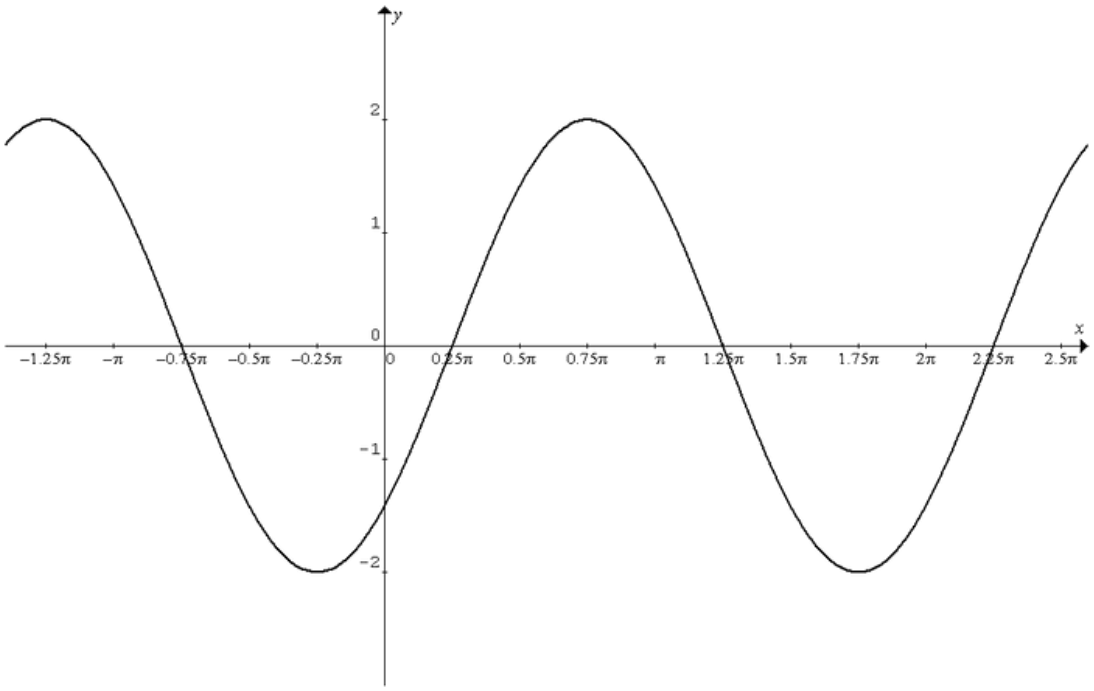
Trig Graphs Worksheet

State the equations for the following graphs.



Amplitude = _____ Period = _____ Phase Shift = _____

Equation (1) = _____ (in terms of the **cosine** function)



Amplitude = _____ Period = _____ Phase Shift = _____

Equation (2) = _____ (in terms of the **sine** function)

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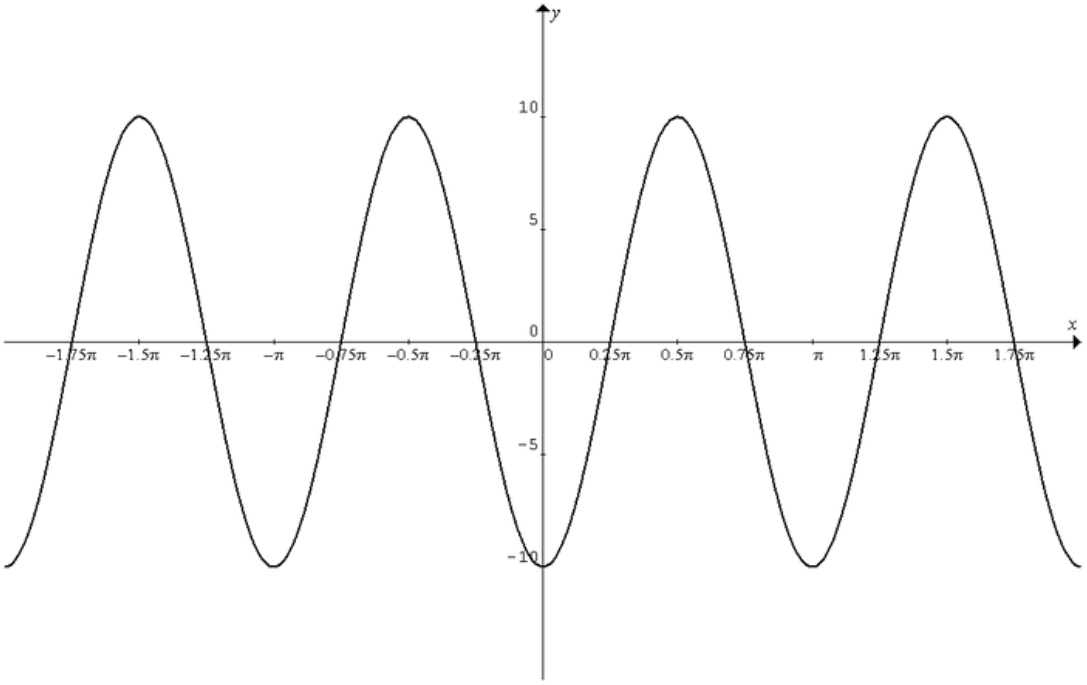
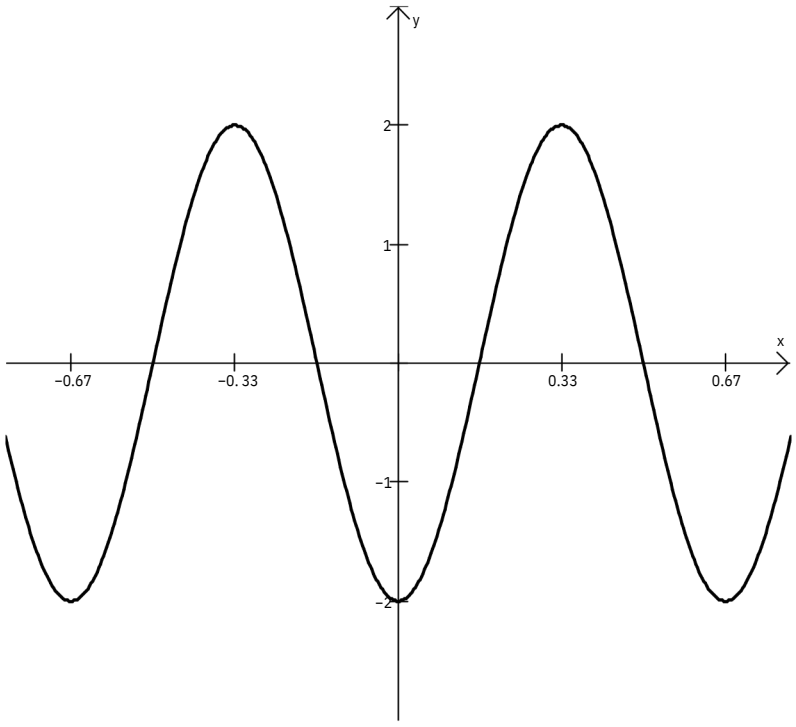


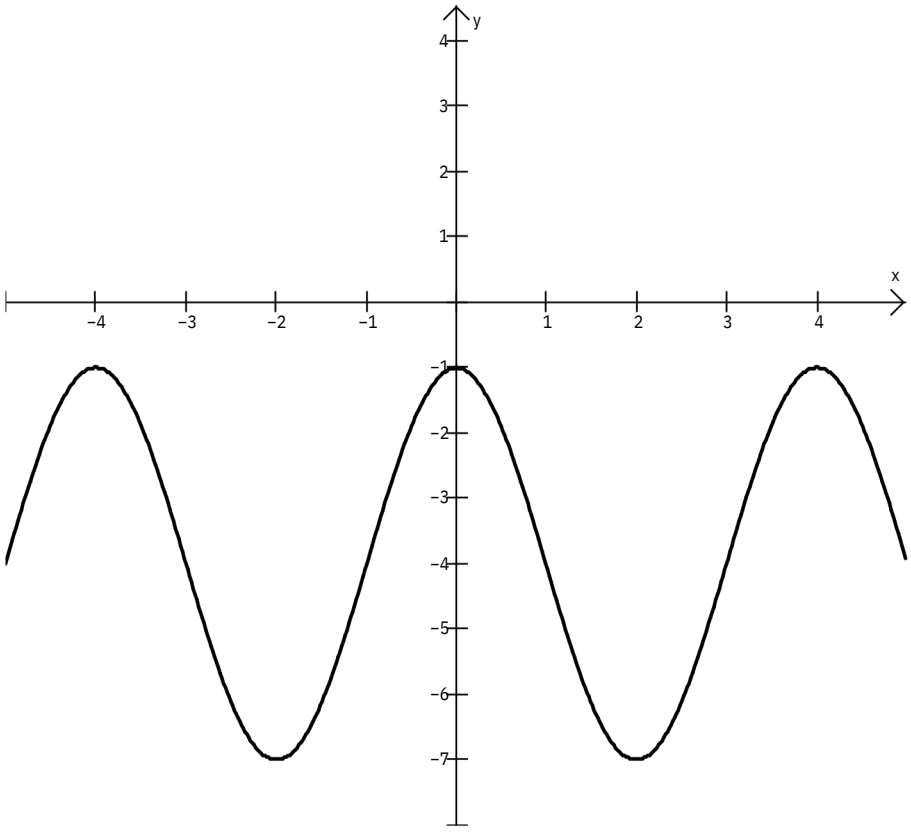
Amplitude = _____ Period = _____ Phase Shift = _____

Equation (3) = _____ (in terms of the **sine** function)



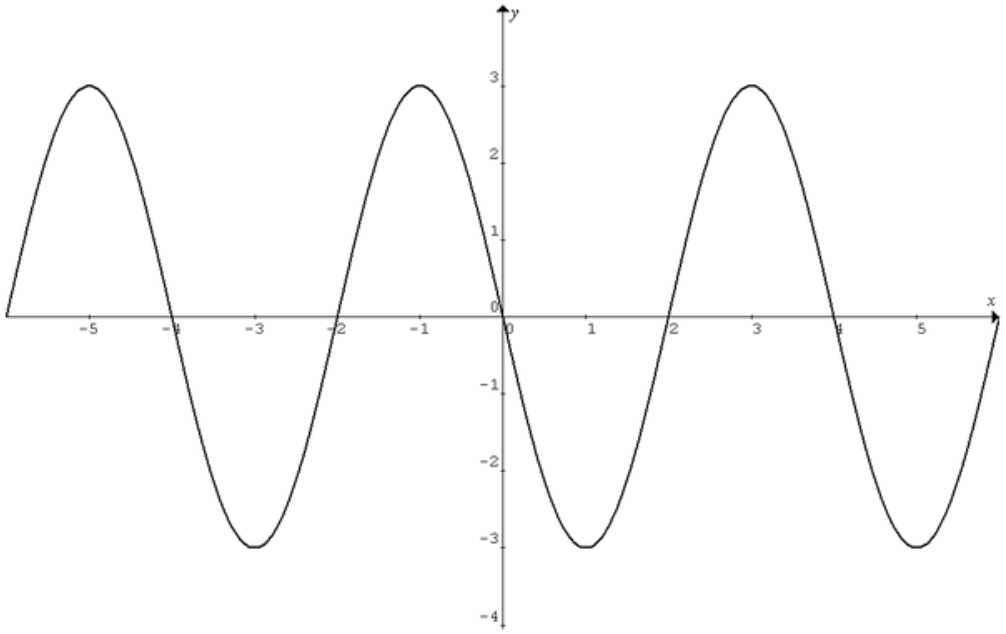
Amplitude = _____ Period = _____ Phase Shift = _____

Equation (4) = _____ (in terms of the **cosine** function)



Amplitude = _____ Period = _____ Phase Shift = _____

Equation (5) = _____ (in terms of the **cosine** function)



Amplitude = _____ Period = _____ Phase Shift = _____

Equation (6) = _____ (in terms of the **sine** function)

Graph one complete period of the given sine or cosine curve. (Check your answer with your graphing calculator!)

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

Amplitude = _____ Period = _____ Phase Shift = _____

$$f(x) = 2\sin\left(\frac{2}{3}x - \frac{\pi}{6}\right)$$

Amplitude = _____ Period = _____ Phase Shift = _____

$$f(x) = 5\sin\left(2\pi x + \frac{\pi}{2}\right)$$

Amplitude = _____ Period = _____ Phase Shift = _____

$$f(x) = \frac{1}{10}\cos 2\left(x + \frac{\pi}{4}\right)$$

Amplitude = _____ Period = _____ Phase Shift = _____

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ANSWERS:

(1) $y = 10\cos\frac{1}{2}x$

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

(3) $y = 10\sin\left(2x - \frac{\pi}{2}\right)$ or $y = 10\sin 2\left(x - \frac{\pi}{4}\right)$

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

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

(6) $y = 3\sin\frac{\pi}{2}(x+2)$ or $y = 3\sin\left(\frac{\pi}{2}x + \pi\right)$

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