

Determine the amplitude and period of each function.

1. $y = \sin 4x$

Amplitude = _____

Period = _____

2. $y = \cos 5x$

Amplitude = _____

Period = _____

3. $y = \sin x$

Amplitude = _____

Period = _____

4. $y = 4 \cos x$

Amplitude = _____

Period = _____

5. $y = -2 \sin x$

Amplitude = _____

Period = _____

6. $y = 2 \sin (-4x)$

Amplitude = _____

Period = _____

7. $y = 3 \sin \frac{2}{3}x$

Amplitude = _____

Period = _____

8. $y = -4 \cos 5x$

Amplitude = _____

Period = _____

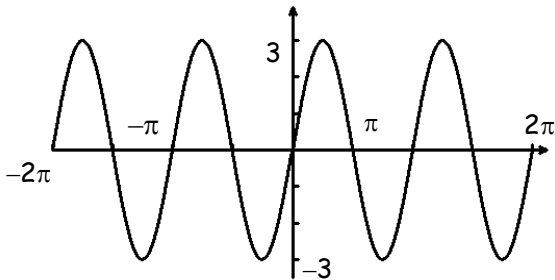
9. $y = 3 \cos (-2x)$

Amplitude = _____

Period = _____

Give the amplitude and period of each function graphed below. Then write an equation of each graph.

10.

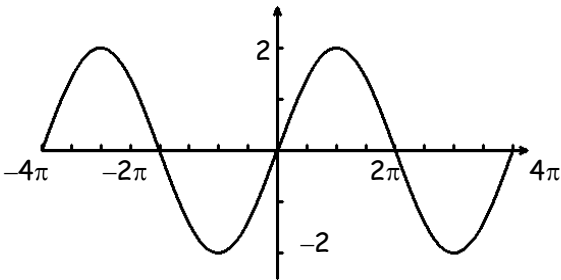


Amplitude = _____

Period = _____

Equation: _____

12.

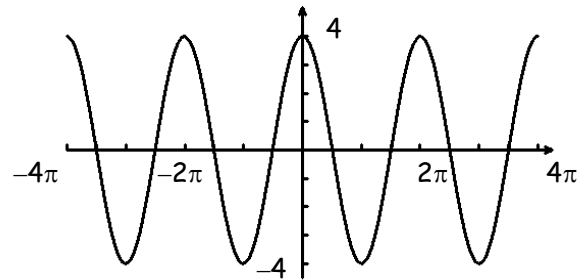


Amplitude = _____

Period = _____

Equation: _____

11.

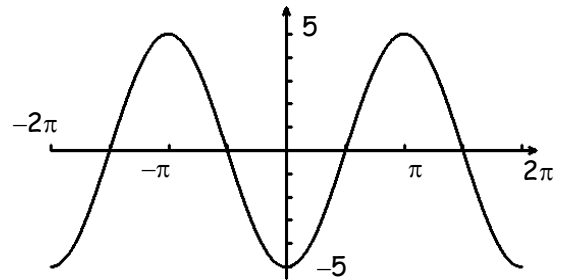


Amplitude = _____

Period = _____

Equation: _____

13.



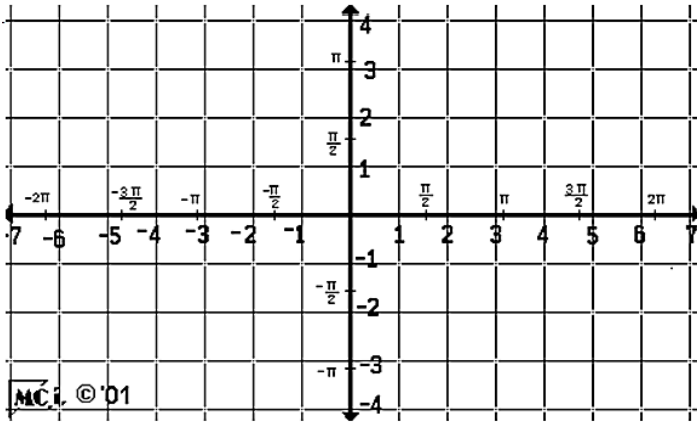
Amplitude = _____

Period = _____

Equation: _____

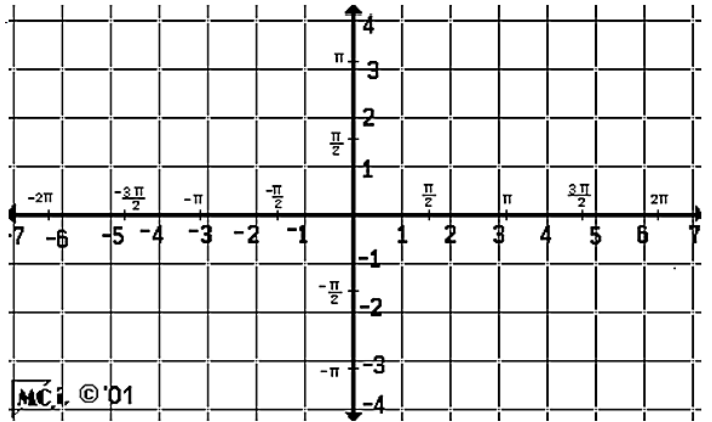
Give the amplitude and period of each function. Then sketch the graph of the function over the interval $-2\pi \leq x \leq 2\pi$ using the key points for each function.

14. $y = 3 \sin x$



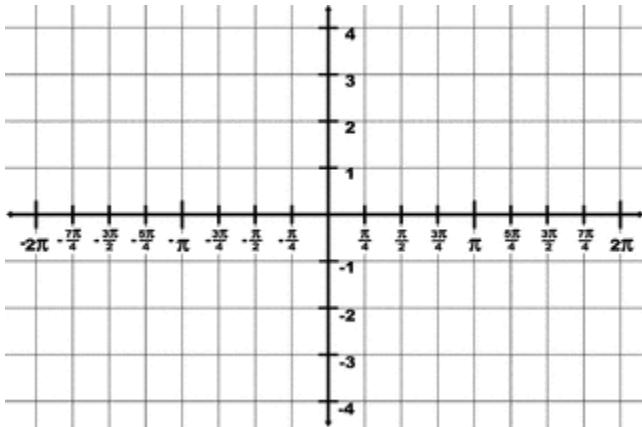
Amplitude = _____
 Period = _____

15. $y = 2 \cos x$



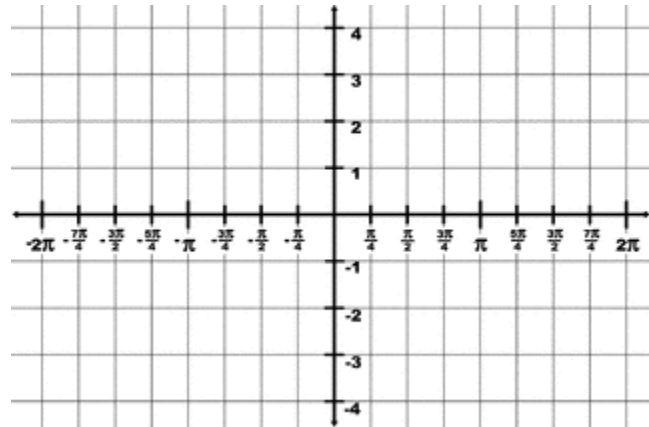
Amplitude= _____
 Period= _____

16. $y = 3 \sin 2x$



Amplitude = _____
 Period = _____

17. $y = 4 \cos 2x$



Amplitude= _____
 Period= _____