Name:_____ Date:_____Per:____

Amplitude and Period for Sine and Cosine Functions Worksheet

Determine the amplitude and period of each function.

1. $y = \sin 4x$ 2. $y = \cos 5x$ 3. $y = \sin x$

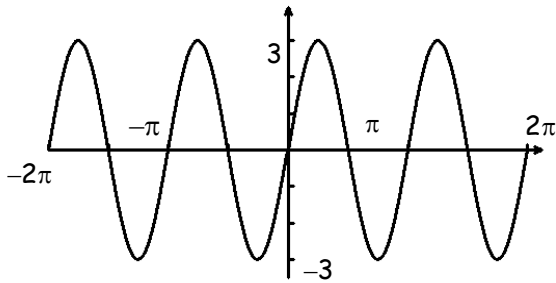4. $y = 4 \cos x$ 5. $y = -2 \sin x$ 6. $y = 2 \sin (-4x)$

7. $y = 3 \sin \dfrac{2}{3} x$ 8. $y = -4 \cos 5x$ 9. $y = 3 \cos (-2x)$
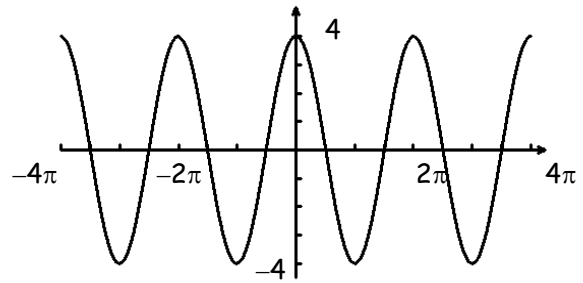
Give the amplitude and period of each function graphed below. Then write an equation of each graph.
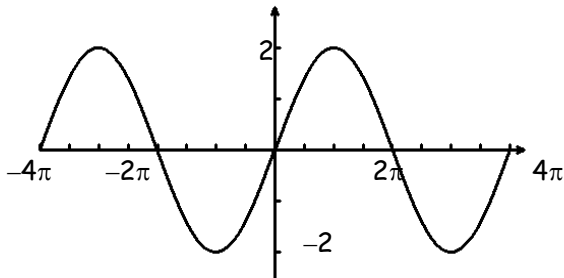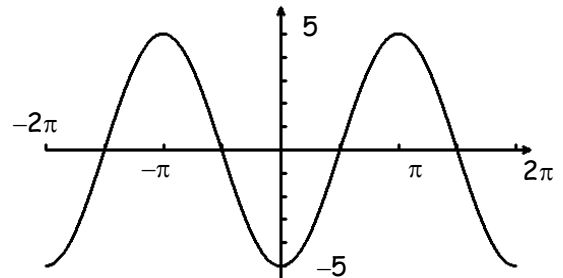
10.   _____   11.   _____

12.   _____   13.   _____

Give the amplitude and period of each function. Then graph of the function over the interval $-2\pi \le x \le 2\pi$.
Graphs provided. BE as accurate with your graphing as possible. Make sure your zero crossing are correct.

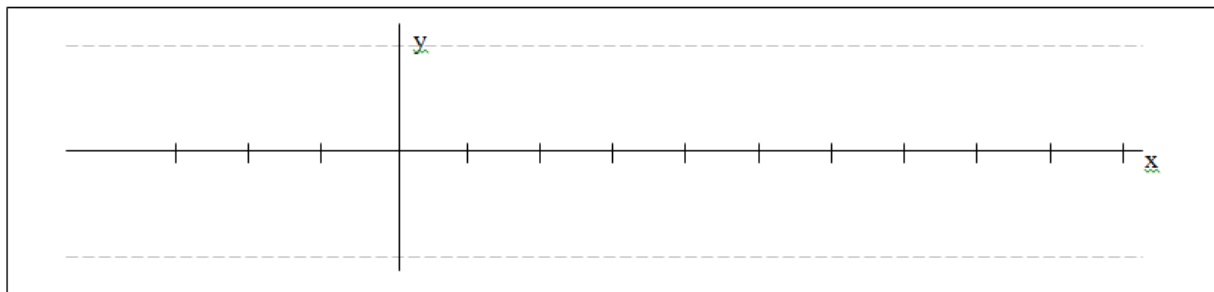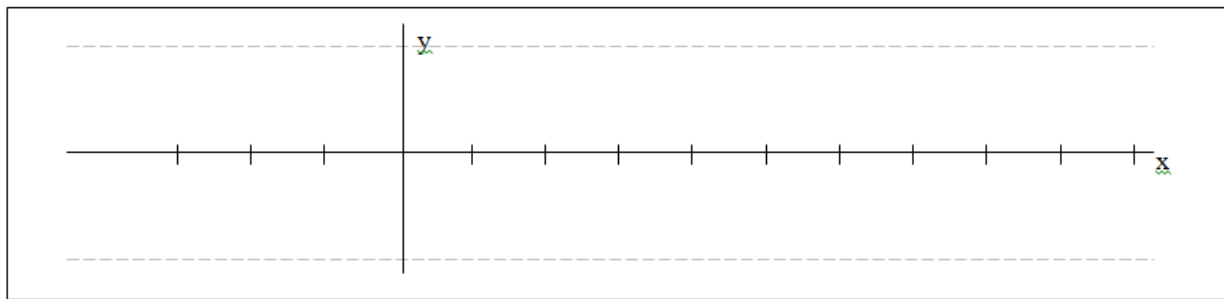14. $y = 3 \sin x$ 15. $y = 2 \cos x$ 16. $y = 3 \sin 2x$

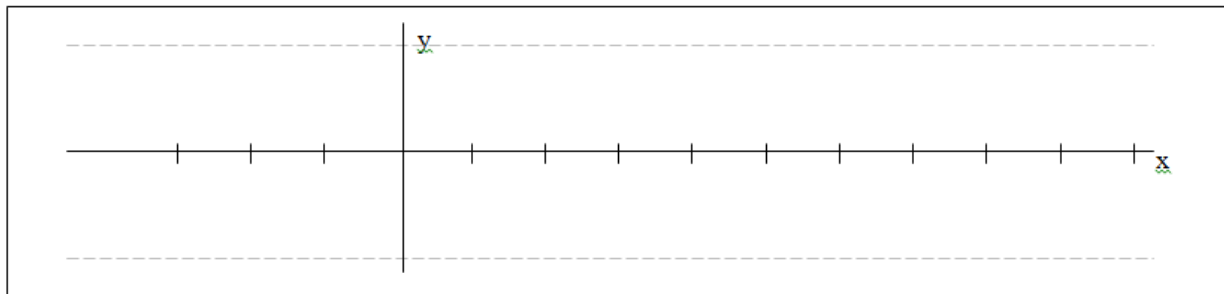17. $y = 5 \cos 2x$ 18. $y = 3 \cos \dfrac{1}{2} x$ 19. $y = - \cos(-3x)$

20. Graph: $y = 2 \sin x$
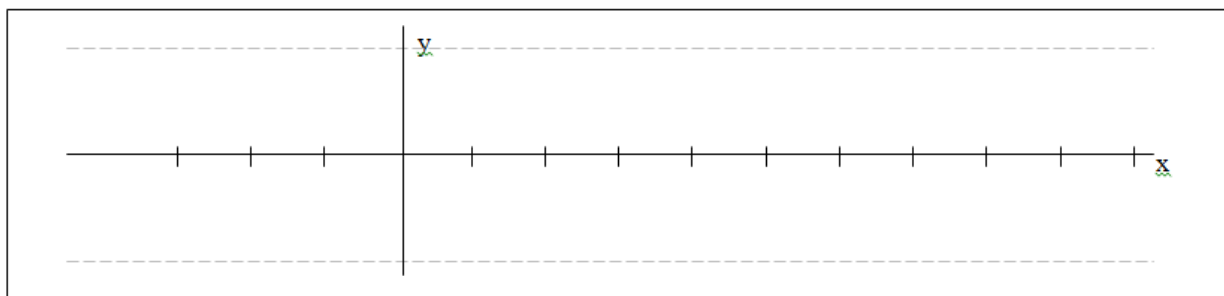
21.

$y = 2 \cos x$

22.

$y = 3 \sin 2x$

23.
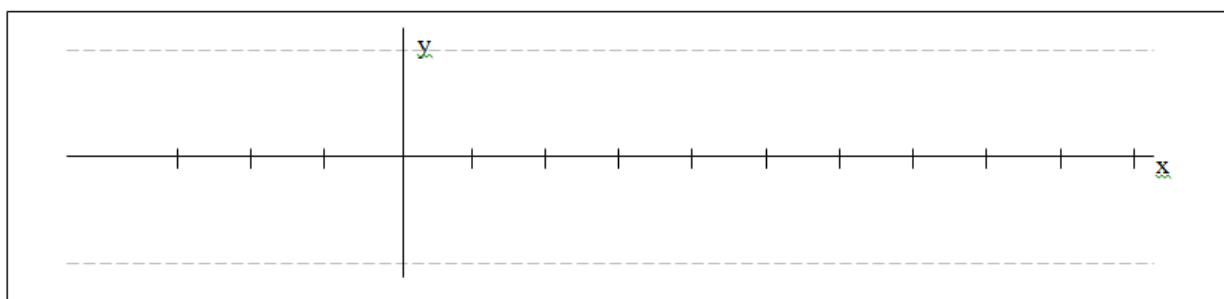
$y = 5 \cos 2x$

24.
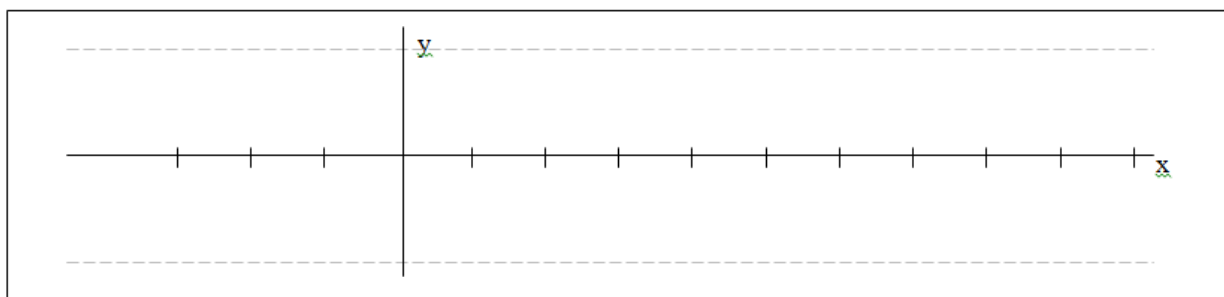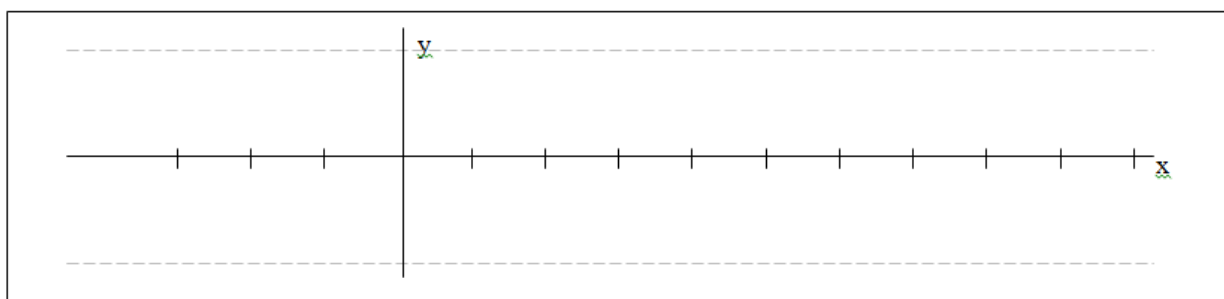
$y = -\cos(-3x)$

25.

$y = 3 \cos \frac{1}{2}x$

26.

$y = -2 \sin(-2x)$