Name:_____ Date:_____ Per:____

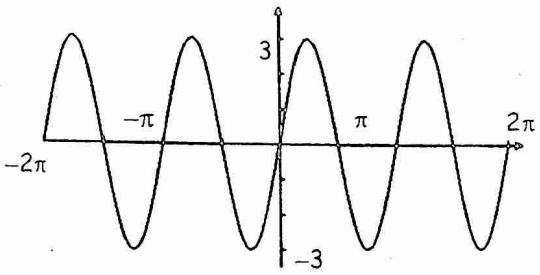
Amplitude and Period for Sine and Cosine Functions Worksheet

Determine the amplitude and period of each function.

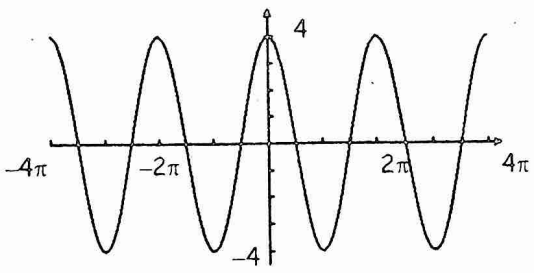
1. $y = \sin 4x$
2. $y = \cos 5x$
3. $y = \sin x$
4. $y = 4 \cos x$
5. $y = -2 \sin x$
6. $y = 2 \sin(-4x)$
7. $y = 3 \sin \frac{2}{3}x$
8. $y = -4 \cos 5x$
9. $y = 3 \cos(-2x)$

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

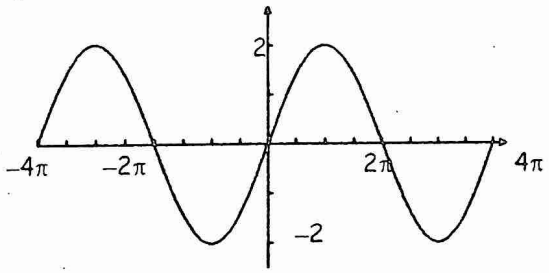
10. _____



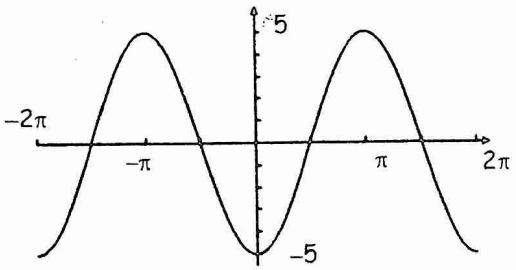
11. _____



12. _____



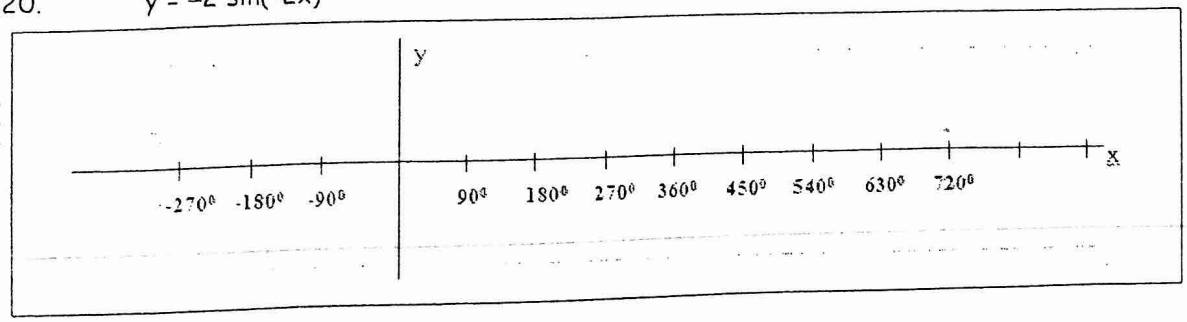
13. _____



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.

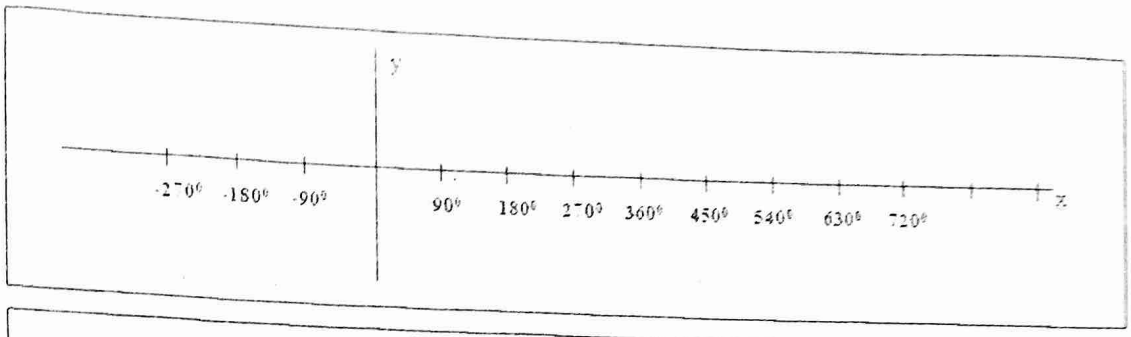
14. $y = 3 \sin x$
15. $y = 2 \cos x$
16. $y = 3 \sin 2x$
17. $y = 5 \cos 2x$
18. $y = 3 \cos \frac{1}{2}x$
19. $y = -\cos(-3x)$

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



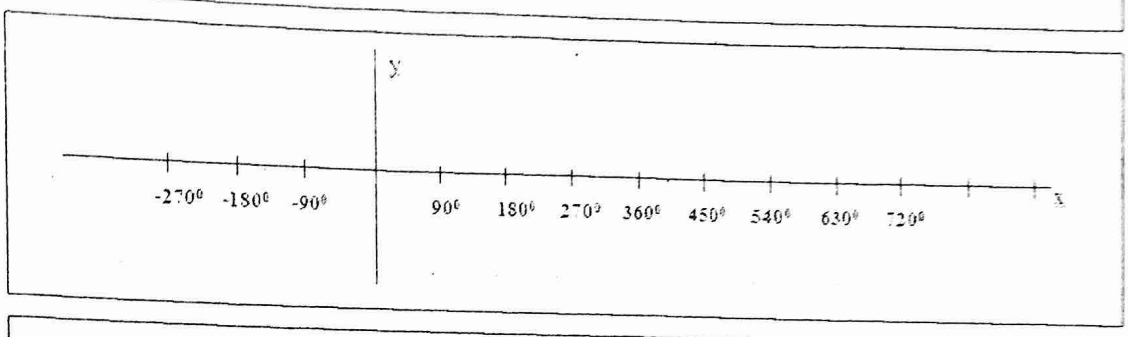
14.

$y = 3 \sin x$



15.

$y = 2\cos x + 5$



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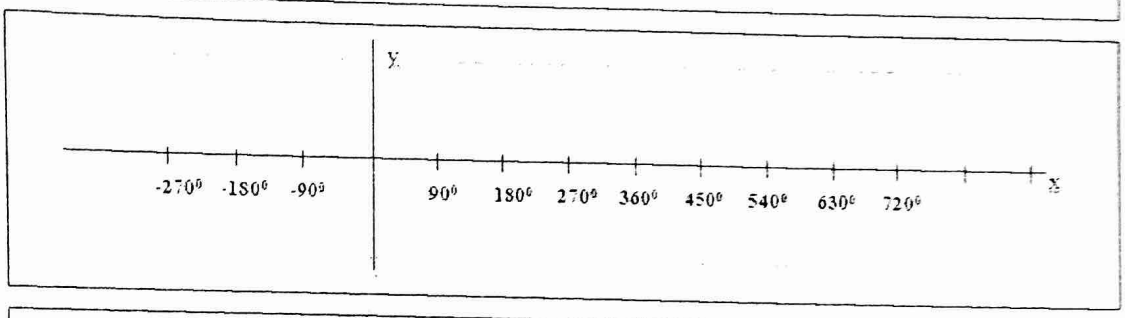
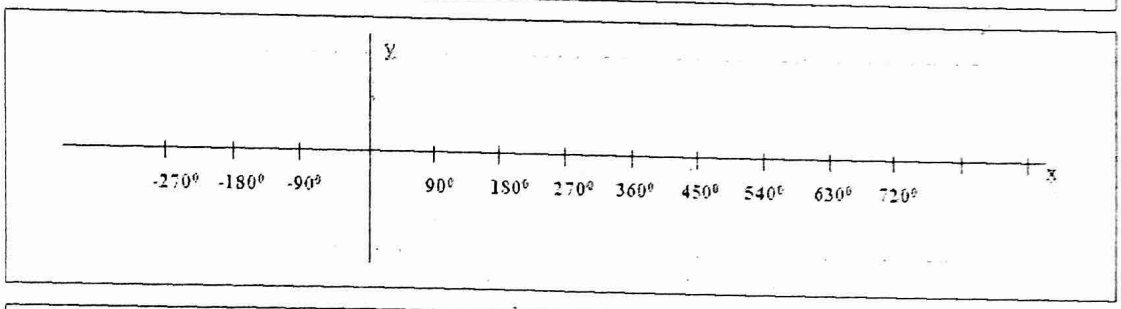
$y = 3\sin(2x - 90)$



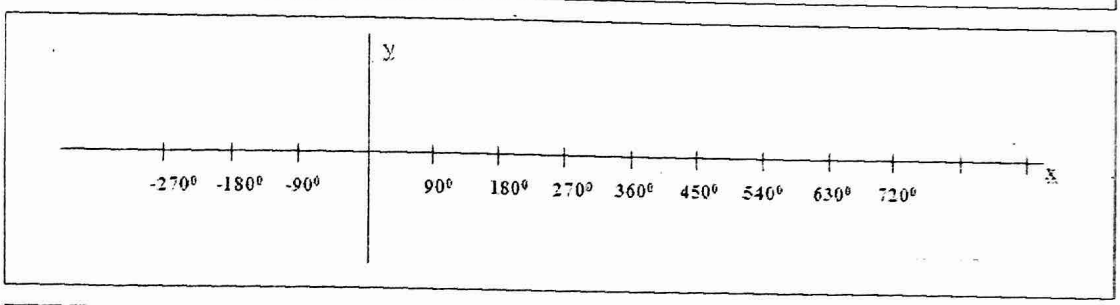
17

$y = 5\cos 2x$



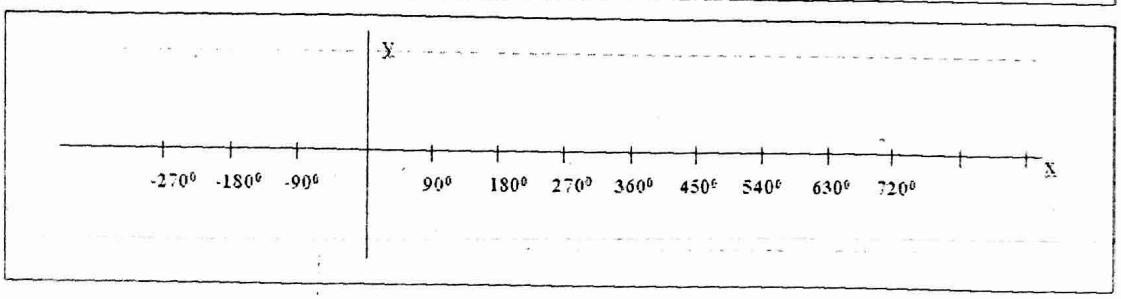
18

$y = -\cos(-3x) + 2$



19

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



20.

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