

Name: _____

Date: _____

1. What is the amplitude of the graph of the equation $y = 2 \sin \frac{1}{2}x$?

- A. $\frac{1}{2}$ B. 2 C. π D. 2π

2. What is the period of the graph for the equation $y = \cos 2x$?

- A. π B. 2 C. 3 D. 4π

3. What is the minimum value of $f(\theta)$ in the equation $f(\theta) = 3 \sin 4\theta$?

- A. -1 B. -2 C. -3 D. -4

4. What is the maximum value of y for the equation $y = 1 + 3 \sin x$?

- A. 1 B. 2 C. 3 D. 4

5. What is the range of the function $y = 2 \cos 3x$?

- A. $-1 \leq y \leq 1$ B. $-2 \leq y \leq 2$
 C. $-3 \leq y \leq 3$ D. $-\frac{3}{2} \leq y \leq \frac{3}{2}$

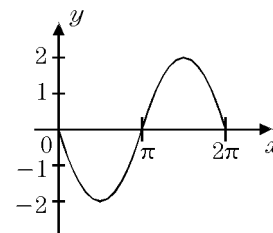
6. Which of the statements below are true about the graph of $y = \cos \theta$?

- I. Domain: all real numbers
 II. Range: $-1 \leq y \leq 1$
 III. Period: 2π

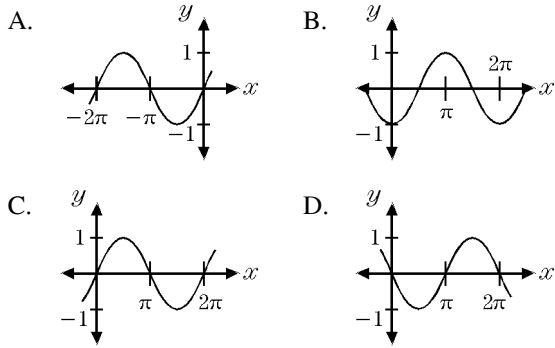
- A. I only B. II only
 C. III only D. I, II, and III

7. Which is an equation of the graph shown?

- A. $y = \sin 2x$
 B. $y = -\sin 2x$
 C. $y = -2 \sin x$
 D. $y = 2 \sin x$

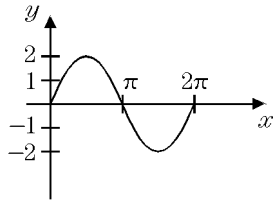


8. Which is the graph of the equation $y = -\sin x$?



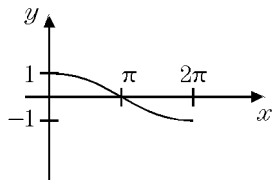
9. Which is an equation of the graph shown below?

- A. $y = \sin 2x$
- B. $y = 2 \cos x$
- C. $y = \cos 2x$
- D. $y = 2 \sin x$

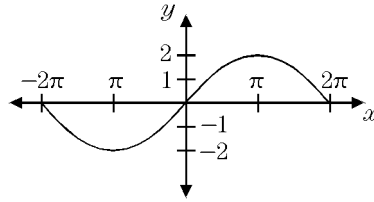


10. Which is an equation of the graph shown below?

- A. $y = \cos \frac{1}{2}x$
- B. $y = \cos 2x$
- C. $y = \sin \frac{1}{2}x$
- D. $y = \sin 2x$

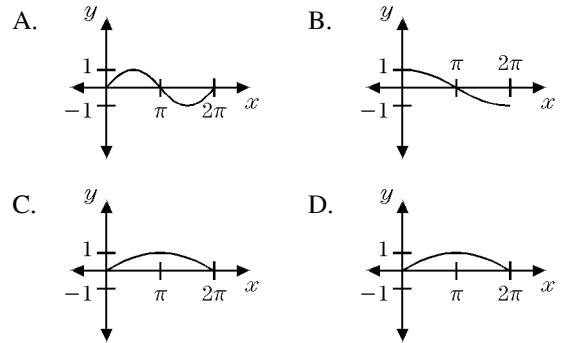


11. Which equation represents the graph below?

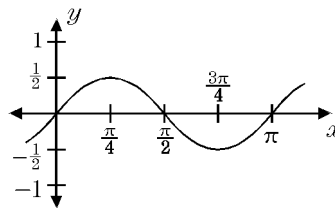


- A. $y = 2 \sin 2x$
- B. $y = \frac{1}{2} \sin x$
- C. $y = 2 \sin \frac{1}{2}x$
- D. $y = 2 \cos 2x$

12. Which graph represents the equation $y = \frac{1}{2} \cos x$?



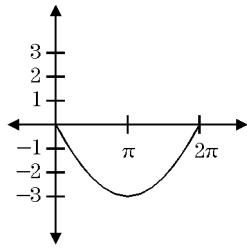
13. Which equation is represented by the graph below?



- A. $y = 2 \sin \frac{1}{2}x$
- B. $y = \frac{1}{2} \sin \frac{1}{2}x$
- C. $y = \frac{1}{2} \sin 2x$
- D. $y = -\frac{1}{2} \cos 2x$

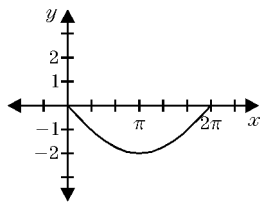
14. Which equation is represented by the graph in the accompanying diagram?

- A. $y = 3 \sin x$
- B. $y = 3 \sin \frac{1}{2}x$
- C. $y = -3 \sin x$
- D. $y = -3 \sin \frac{1}{2}x$



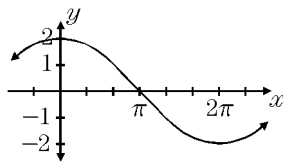
15. Which equation is represented by the accompanying graph?

- A. $y = -2 \sin \frac{1}{2}x$
- B. $y = -\frac{1}{2} \sin 2x$
- C. $y = \frac{1}{2} \sin 2x$
- D. $y = 2 \sin \frac{1}{2}x$

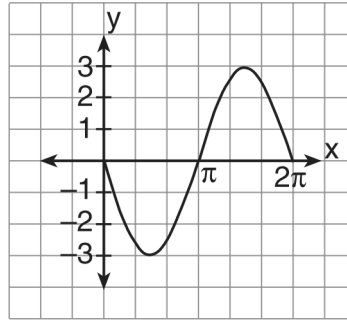


16. Which equation is represented in the accompanying graph?

- A. $y = 2 \cos 2x$
- B. $y = \frac{1}{2} \cos 2x$
- C. $y = 2 \cos \frac{1}{2}x$
- D. $y = \frac{1}{2} \cos \frac{1}{2}x$

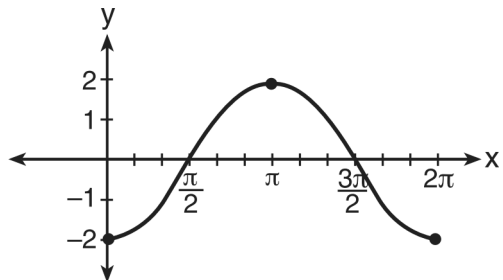


17. Which equation is represented on the accompanying graph?



- A. $y = 3 \sin x$
- B. $y = -3 \sin x$
- C. $y = 3 \cos x$
- D. $y = -\sin 3x$

18. The accompanying graph shows a trigonometric function. State an equation of this function.



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1.
Answer: B
2.
Answer: A
3.
Answer: C
4.
Answer: D
5.
Answer: B
6.
Answer: D
7.
Answer: C
8.
Answer: D
9.
Answer: D
10.
Answer: A
11.
Answer: C
12.
Answer: D
13.
Answer: C
14.
Answer: D
15.
Answer: A
16.
Answer: C
17.
Answer: B
18.
Answer: $y = -2 \cos x$