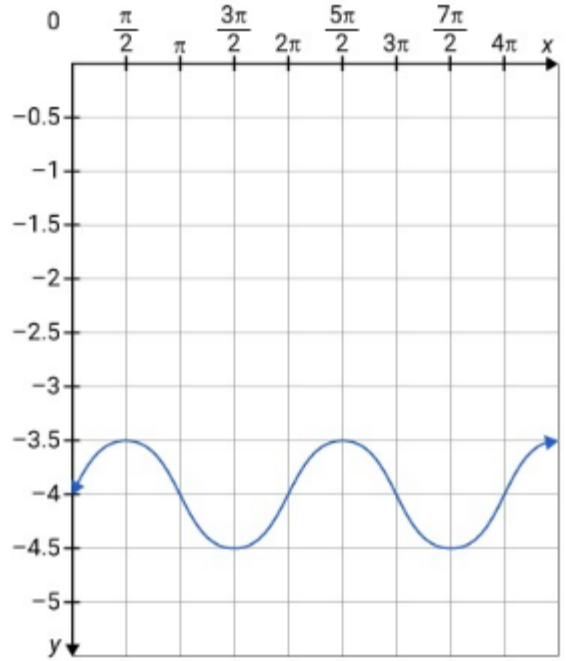
Select the correct option.

What is the maximum, minimum, and amplitude of the function shown on this graph?



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ATTEMPT 1

- maximum $= 3$, minimum $= 4$, amplitude $= -0.5$
- maximum $= -3$, minimum $= -4$, amplitude $= 0.5$
- ✓ maximum $= -3.5$, minimum $= -4.5$, amplitude $= 0.5$
- maximum $= 3.5$, minimum $= 4.5$, amplitude $= -0.5$

Choose the correct answer from the drop-down menu.

Identify the graph of the function $y = 7 \sin x$.

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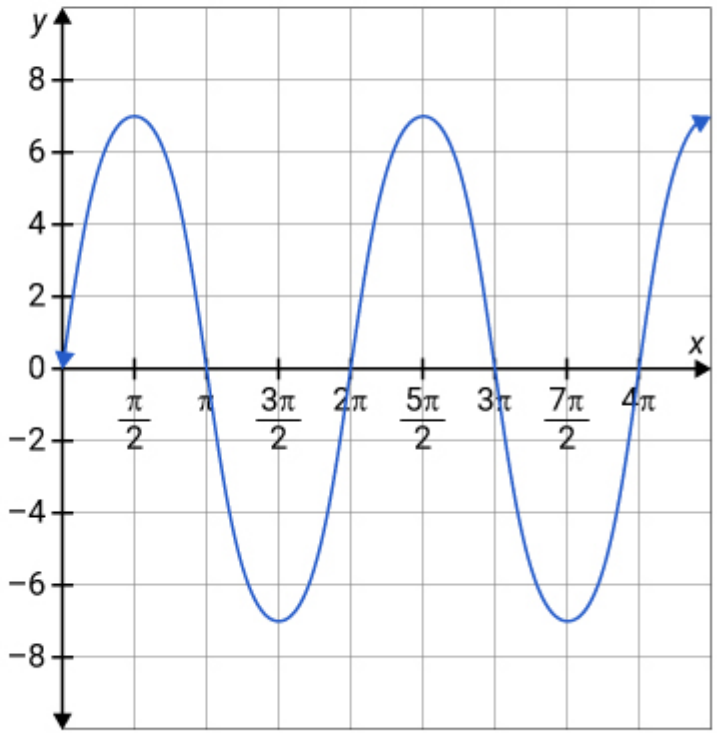
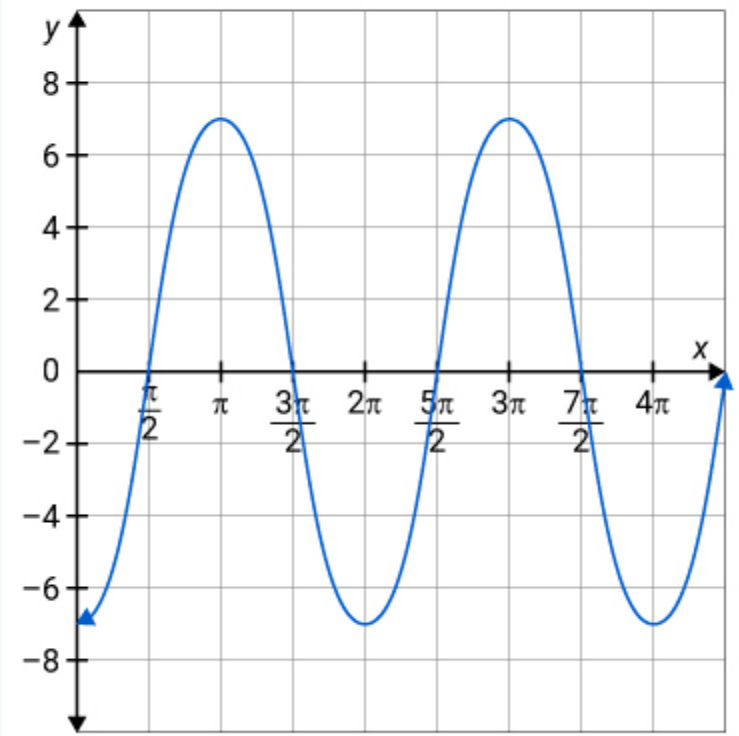
1.



Choose the correct answer from the drop-down menu.

Identify the graph of the function $y = -7\cos x$.

1.



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Determine the frequency and period of the function $y = 3\cos\left(-\frac{x}{2}\right)$.

ATTEMPT 1

- [x] The frequency of the function is $\frac{1}{4\pi}$. ✓
- [ ] The frequency of the function is $\frac{2}{\pi}$.

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- [ ] The period of the function is $\frac{\pi}{2}$.
- [x] The frequency of the function is $\frac{4}{\pi}$. ✗
- [x] The period of the function is 4π. ✓
- [ ] The period of the function is $\frac{\pi}{4}$.

Choose the correct answer from the drop-down menu.

What is the period of $y = \cos 6x$?

The period is 1. $\frac{\pi}{3}$.

1. $\frac{\pi}{3}$

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Drag and drop the correct answer into the space(s) provided.

The displacement, y, in centimeters of a mass suspended by a spring. If the amplitude of this displacement is $\frac{1}{4}$ and its frequency is $\frac{1}{2}$.

Write a cosine function which models this displacement.

This cosine function is $y =$ 1. $\frac{1}{4}\cos \pi x$ ✓.

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$\frac{1}{4}\cos \frac{\pi x}{2}$ $\frac{1}{2}\cos \frac{\pi x}{2}$ $\frac{1}{2}\cos \frac{\pi x}{4}$

1. $\frac{1}{4}\cos \pi x$ ✓

Fill in the blank(s) with the correct answer.

Determine the period of $y = \frac{1}{3} \sin 2x$.

The period for the function $y = \frac{1}{3} \sin 2x$ is 1. π ✓.

1. π

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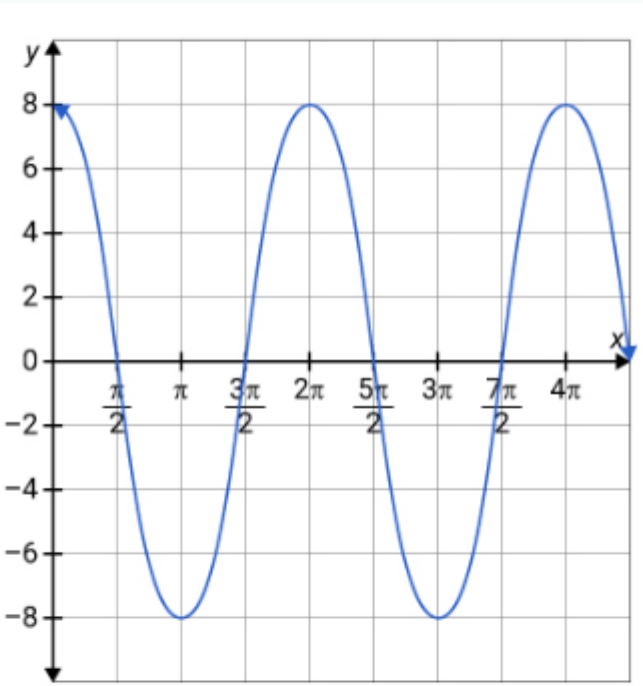
✓

Select the correct option.

Which graph shows $y = 8\cos x$?



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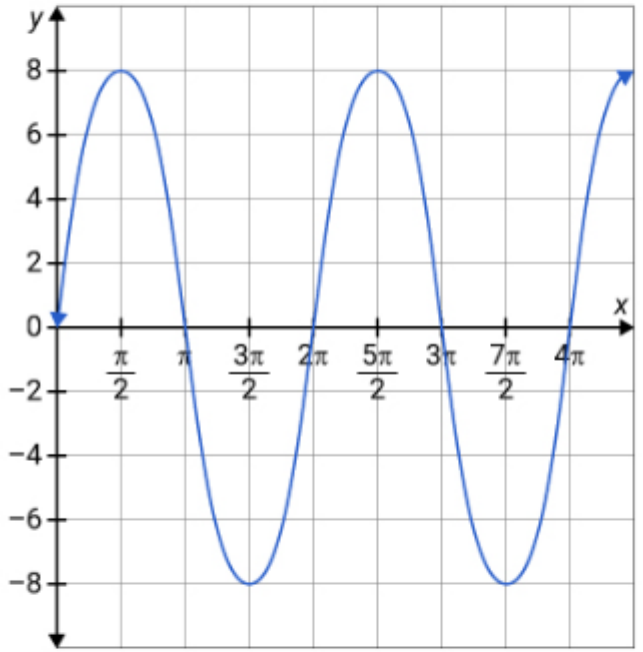
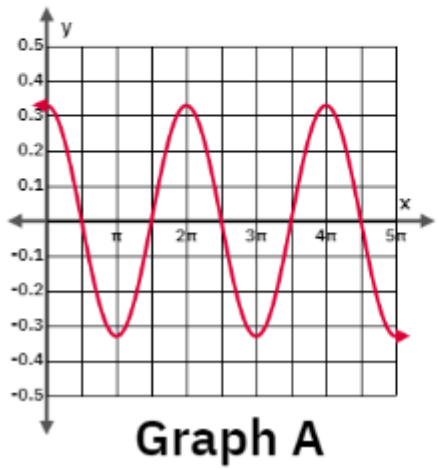
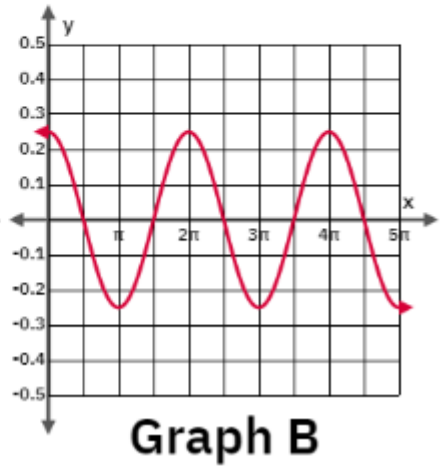


Drag and drop the correct answer into the space(s) provided.

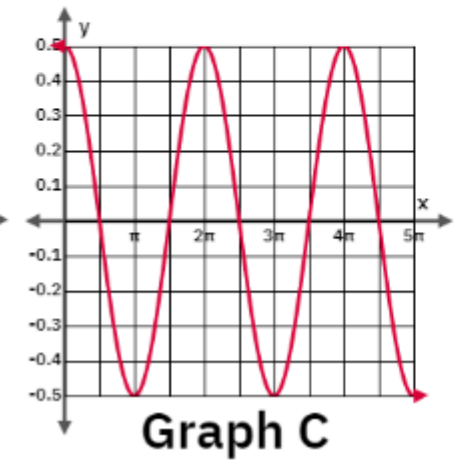
Which graph shows the function $y = \frac{1}{3}\cos x$?



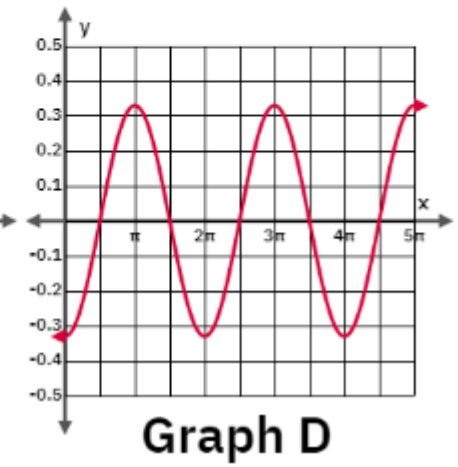
Graph A



Graph B



Graph C



Graph D

The graph that correctly shows this cosine function is 1. Graph B ✗.

Graph D | Graph C | Graph A | Graph B

1. Graph B ✗

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Graph A ✓