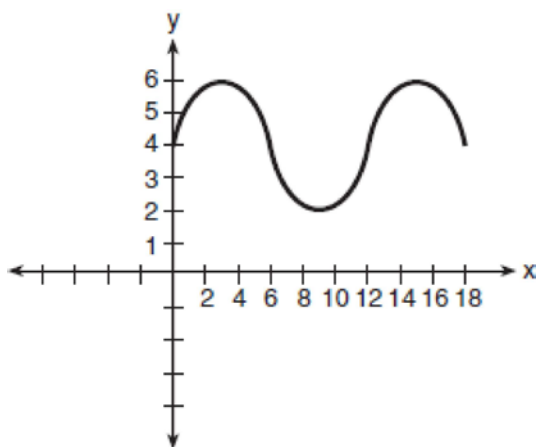


**A2.A.69: Properties of Graphs of Trigonometric Functions 1: Determine amplitude, period, frequency, and phase shift, given the graph or equation of a periodic function**

- 1 What is the amplitude of the function shown in the accompanying graph?



- 1) 1.5  
2) 2  
3) 6  
4) 12
- 2 What is the amplitude of the function  $y = \frac{2}{3} \sin 4x$ ?

- 1)  $\frac{\pi}{2}$   
2)  $\frac{2}{3}$   
3)  $3\pi$   
4) 4

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

- 1)  $\frac{1}{2}$   
2) 2  
3)  $\pi$   
4)  $2\pi$

- 4 What is the amplitude of the graph of the equation  $y = 2 \sin 3x$ ?

- 1)  $\frac{2\pi}{3}$   
2) 2  
3) 3  
4)  $6\pi$

- 5 What is the amplitude of the graph of  $y = \cos 2x$ ?

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

- 7 What is the amplitude of the graph of the equation  $y = 4 \sin \frac{1}{2}x$ ?

- 8 What is the amplitude of the graph of the equation  $y = 3 \sin \frac{1}{2}x$ ?

- 9 What is the amplitude of the function  $y = 3 \sin 2x$ ?

**A2.A.69: Properties of Graphs of Trigonometric Functions 1: Determine amplitude, period, frequency, and phase shift, given the graph or equation of a periodic function**

**Answer Section**

1 ANS: 2 PTS: 2 REF: 010715b  
 2 ANS: 2 PTS: 2 REF: 060403b  
 3 ANS: 2 PTS: 2 REF: 018719siii  
 4 ANS: 2 PTS: 2 REF: 068715siii  
 5 ANS:  
 1

PTS: 2 REF: 068007siii  
 6 ANS:  
 $\frac{1}{2}$

PTS: 2 REF: 018604siii  
 7 ANS:  
 4

PTS: 2 REF: 010401siii  
 8 ANS:  
 3

PTS: 2 REF: 089001siii  
 9 ANS:  
 3

PTS: 2 REF: 080002siii