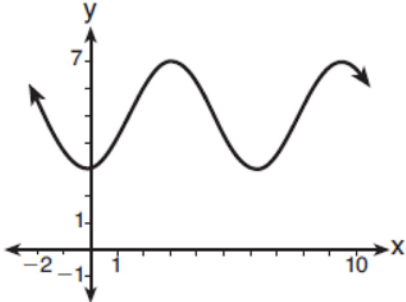


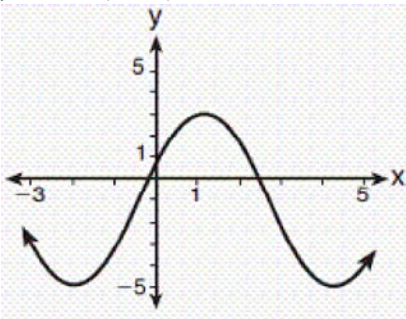
F.IF.C.7: Graphing Trigonometric Functions 1

1 Which sinusoid has the greatest amplitude?



1)

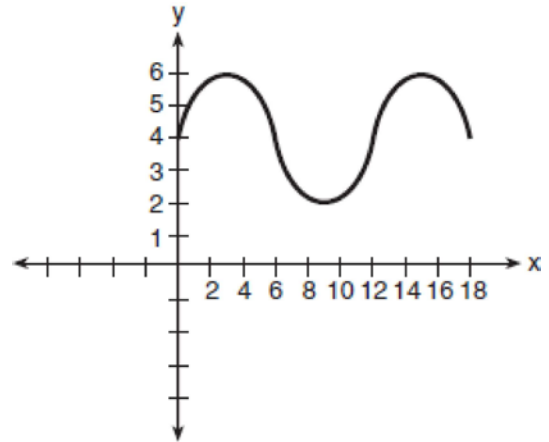
2) $y = 3 \sin(\theta - 3) + 5$



3)

4) $y = -5 \sin(\theta - 1) - 3$

2 What is the amplitude of the function shown in the accompanying graph?



1) 1.5

2) 2

3) 6

4) 12

3 What is the amplitude of the function $y = \frac{2}{3} \sin 4x$?

1) $\frac{\pi}{2}$

2) $\frac{2}{3}$

3) 3π

4) 4

- 4 What is the amplitude of the graph of the equation

$$y = 2 \sin \frac{1}{2} x?$$

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

- 5 What is the amplitude of the graph of the equation

$$y = 2 \sin 3x?$$

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

- 6 A monitor displays the graph $y = 3 \sin 5x$. What will be the amplitude after a dilation of 2?

- 1) 5
- 2) 6
- 3) 7
- 4) 10

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

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

- 9 What is the amplitude of the graph of the equation

$$y = 4 \sin \frac{1}{2} x?$$

- 10 What is the amplitude of the graph of the equation

$$y = 3 \sin \frac{1}{2} x?$$

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

- 12 What will be the amplitude of the image of the curve $y = 2 \sin 3x$ after a dilation of scale factor 2?

F.IF.C.7: Graphing Trigonometric Functions 1
Answer Section

- 1 ANS: 4 REF: 081718aai
2 ANS: 2 REF: 010715b
3 ANS: 2 REF: 060403b
4 ANS: 2 REF: 018719siii
5 ANS: 2 REF: 068715siii
6 ANS: 2 REF: 010301b
7 ANS:
1

REF: 068007siii

- 8 ANS:
 $\frac{1}{2}$

REF: 018604siii

- 9 ANS:
4

REF: 010401siii

- 10 ANS:
3

REF: 089001siii

- 11 ANS:
3

REF: 080002siii

- 12 ANS:
4

REF: 069707siii