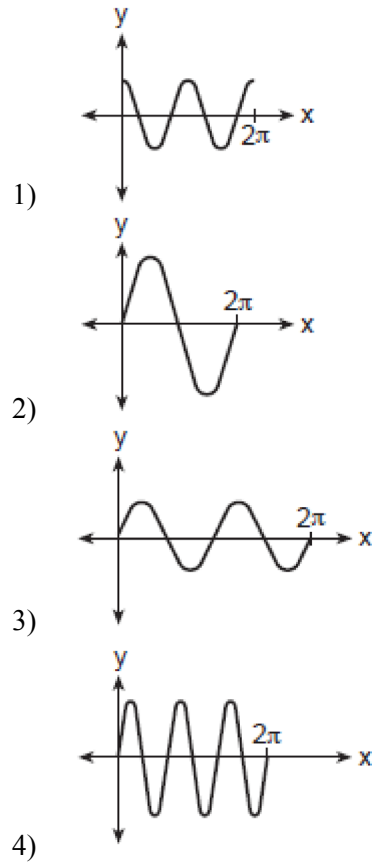
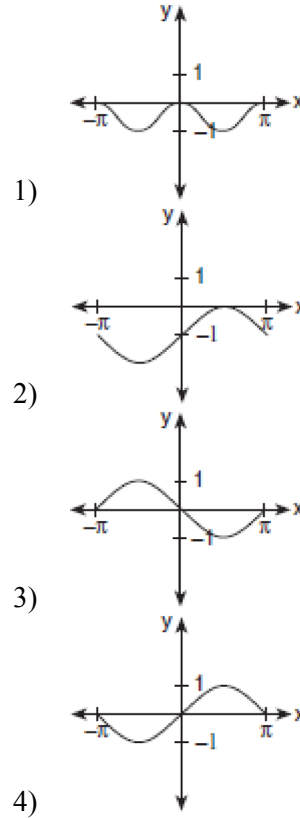


A2.A.70: Graphing Trigonometric Functions 2: Sketch and recognize one cycle of a function of the form $y = A\sin Bx$ or $y = A\cos Bx$

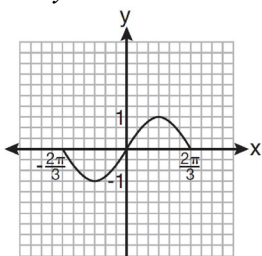
- 1 Which graph represents a sound wave that follows a curve whose period is π and that is in the form $y = a \sin bx$?



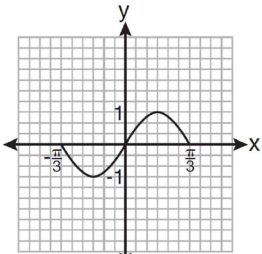
- 2 Which graph represents the function $f(x) = -\sin x$ in the interval $-\pi \leq x \leq \pi$?



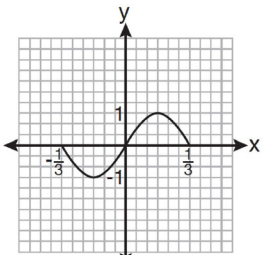
- 3 Which graph represents one complete cycle of the equation $y = \sin 3\pi x$?



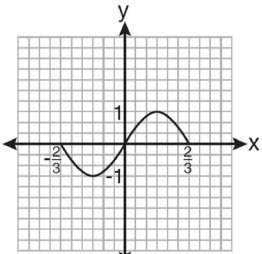
1)



2)

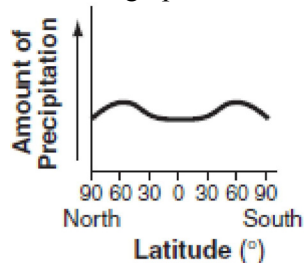


3)

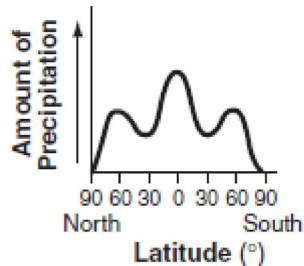


4)

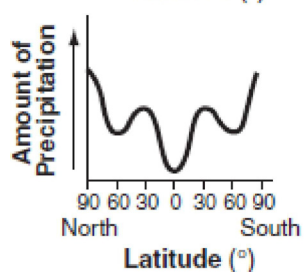
- 4 The graphs below show the average annual precipitation received at different latitudes on Earth. Which graph is a translated cosine curve?



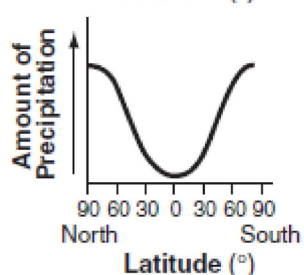
1)



2)

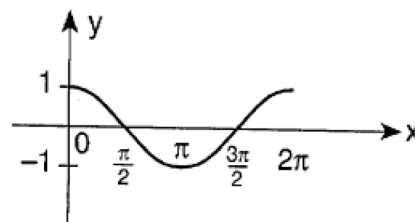


3)



4)

- 5 The graph below *incorrectly* represents the equation $y = 2\cos x$. Write a mathematical explanation of why this graph is incorrect.



A2.A.70: Graphing Trigonometric Functions 2: Sketch and recognize one cycle of a function of the form $y = A\sin Bx$ or $y = A\cos Bx$

Answer Section

- | | | | |
|---|--------------------------------|--------|-----------------|
| 1 | ANS: 3 | PTS: 2 | REF: 080815b |
| 2 | ANS: 3 | PTS: 2 | REF: 060228siii |
| 3 | ANS: 3 | PTS: 2 | REF: 081026a2 |
| 4 | ANS: 4 | PTS: 2 | REF: 080503b |
| 5 | ANS:
Amplitude should be 2. | | |

PTS: 2 REF: 089736siii