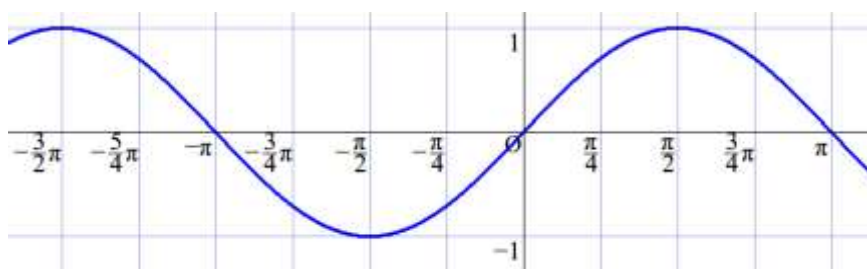


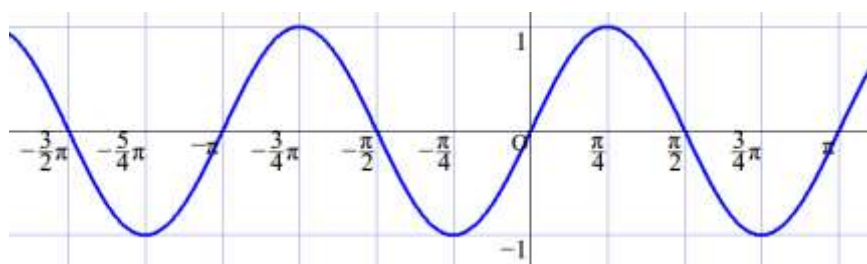
三角関数のグラフの理解

1. $y = \sin nx$ のグラフの特徴をつかめ！

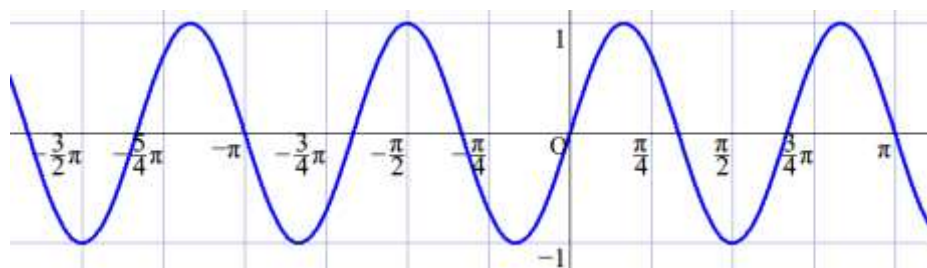
$y = \sin x$ のグラフ



$y = \sin 2x$ のグラフ



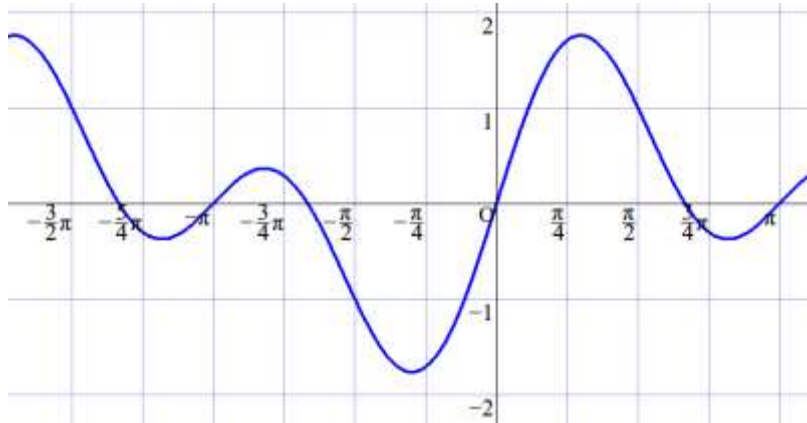
$y = \sin 3x$ のグラフ



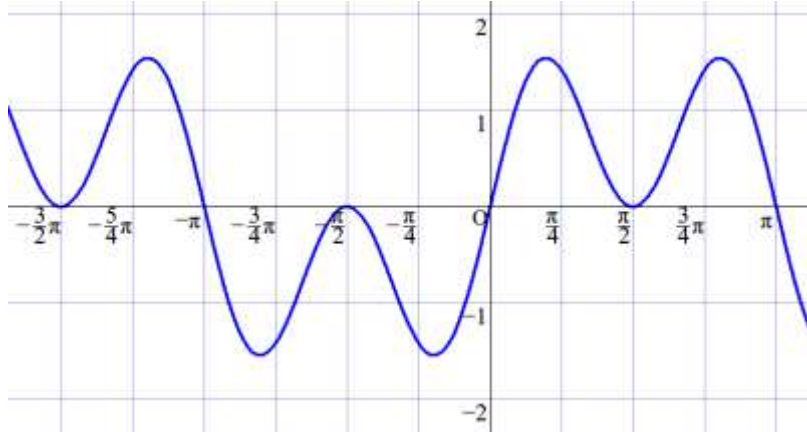
理解した特徴を記入せよ。

2. $y = \sin nx + \sin mx$ のグラフの特徴をつかめ!

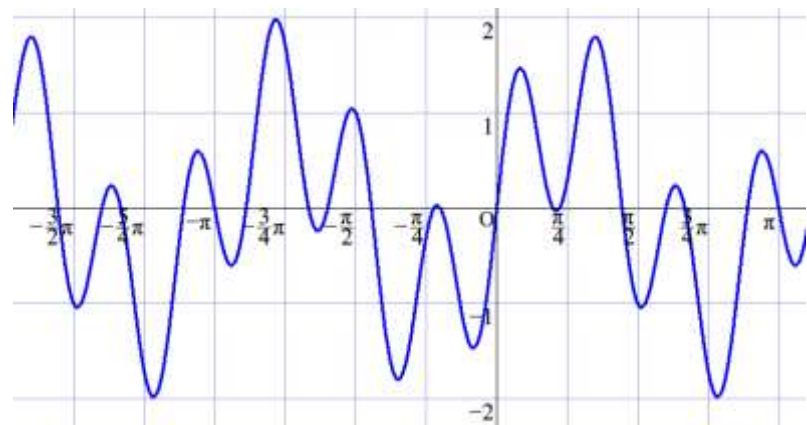
$y = \sin x + \sin 2x$ のグラフ



$y = \sin x + \sin 3x$ のグラフ



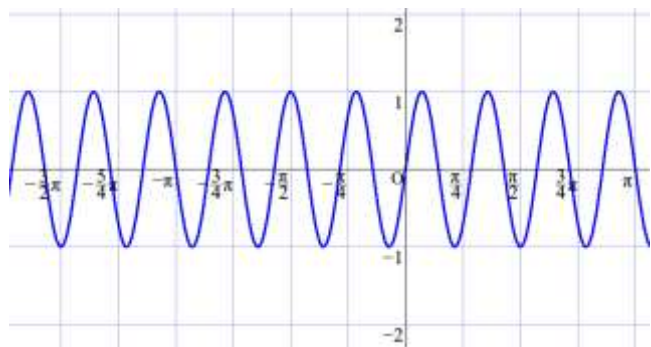
$y = \sin 2x + \sin 7x$ のグラフ



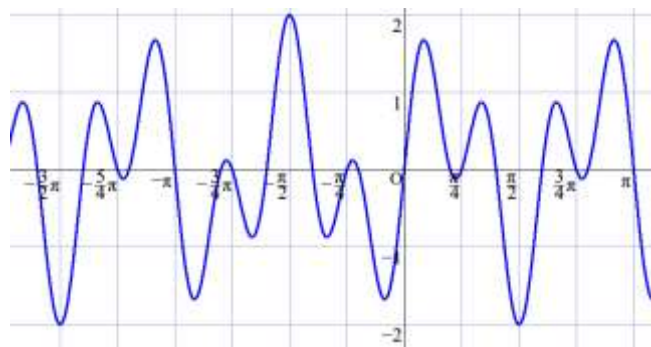
理解した特徴を記入せよ。

問題3 (レベル1). 次の関数のグラフに対応するグラフを (図1) から (図6) から選べ.

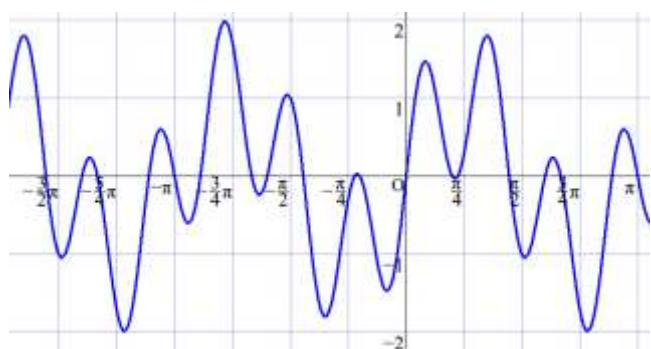
- ① $y = \sin 5x$ ② $y = \sin 6x$ ③ $y = \sin 2x + \sin 7x$ ④ $y = \sin 3x + \sin 7x$



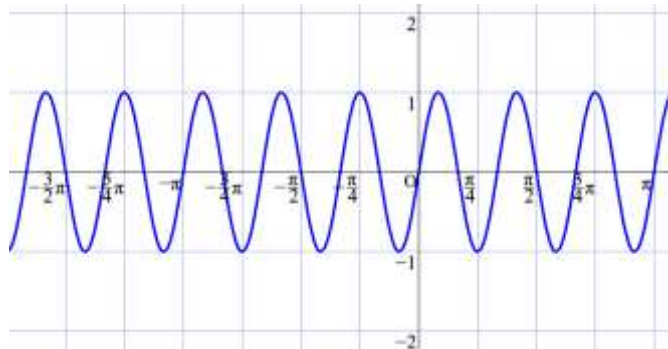
(図1)



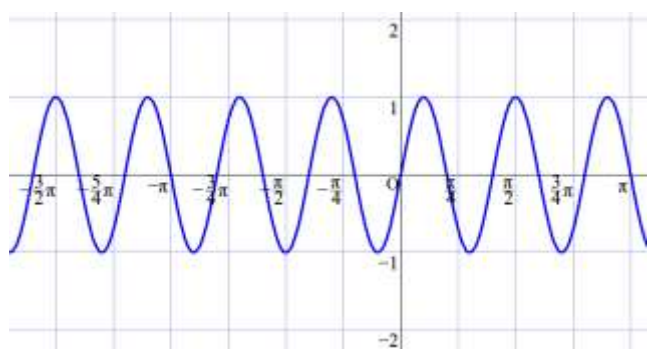
(図2)



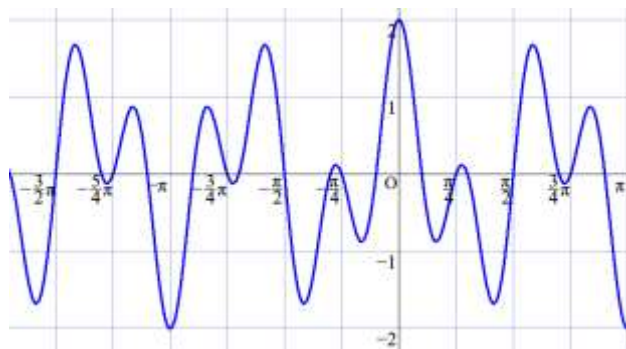
(図3)



(図4)



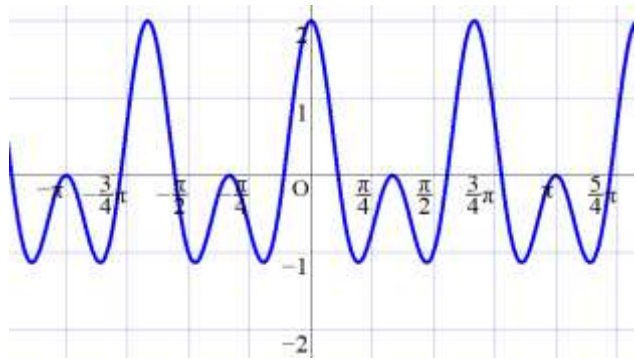
(図5)



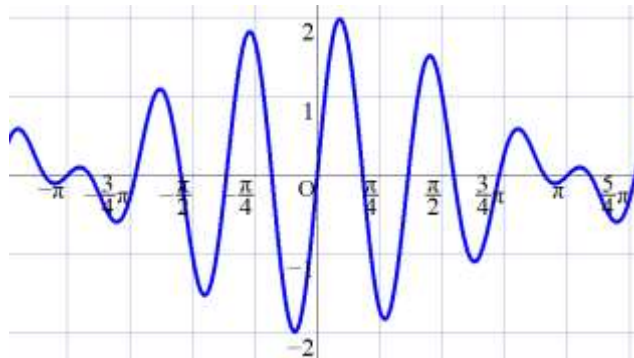
(図6)

問題4 (レベル2). 次の関数のグラフに対応するグラフを (図1) から (図6) から選べ.

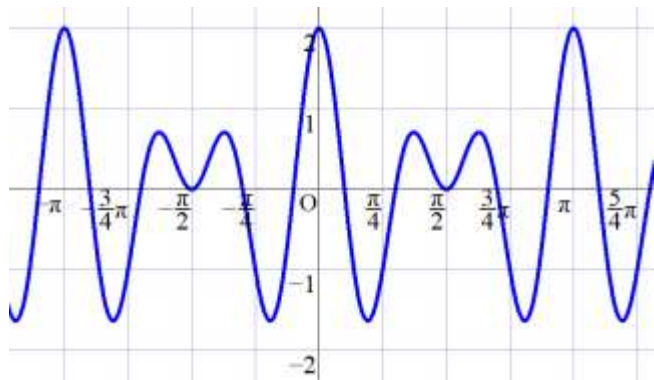
① $y = \sin 2x + \sin 6x$ ② $y = \sin 3x + \sin 6x$ ③ $y = \sin 4x + \sin 6x$



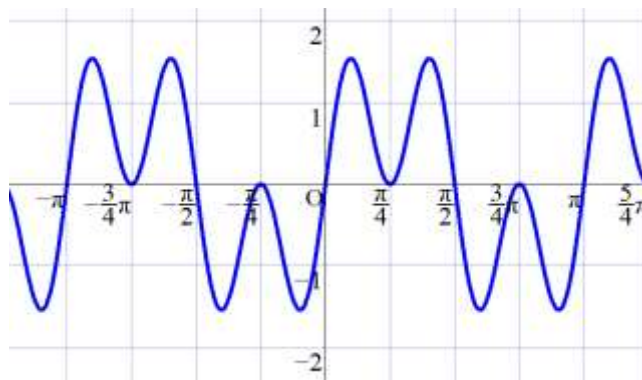
(図1)



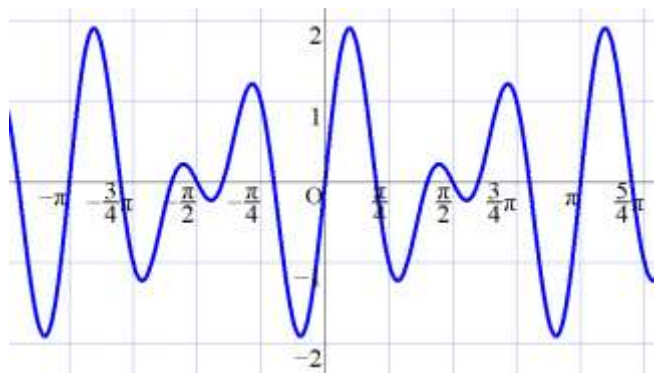
(図2)



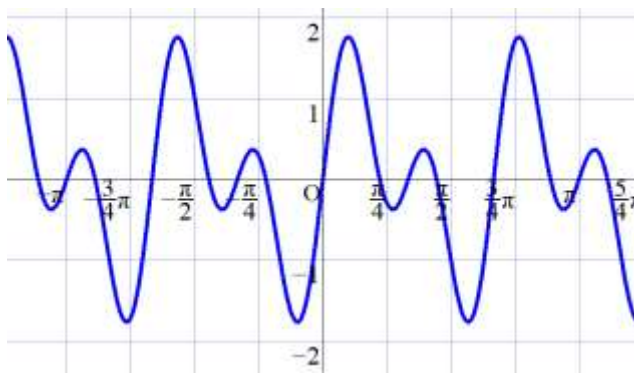
(図3)



(図4)



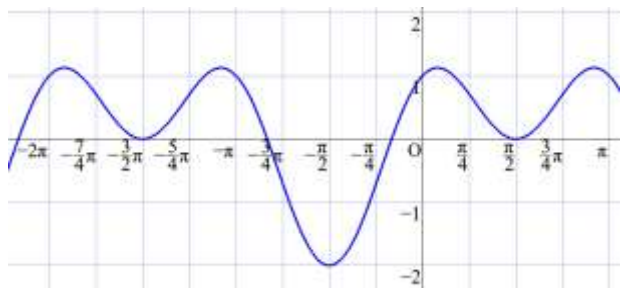
(図5)



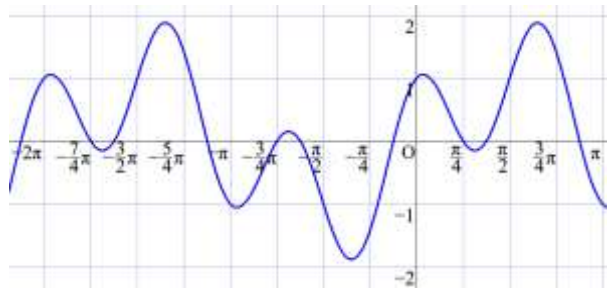
(図6)

問題5 (レベル3). 次の関数のグラフに対応するグラフを (図1) から (図6) から選べ.

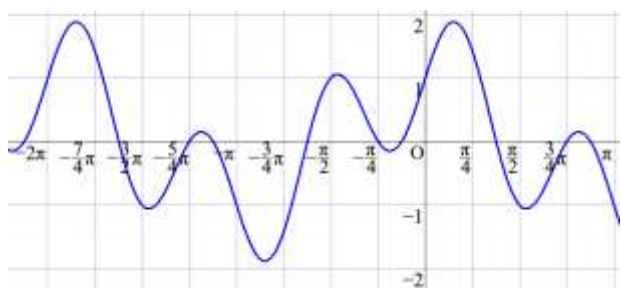
- ① $y = \sin 2x + \cos 2x$ ② $y = \sin x + \cos 2x$ ③ $y = \sin 3x + \cos x$



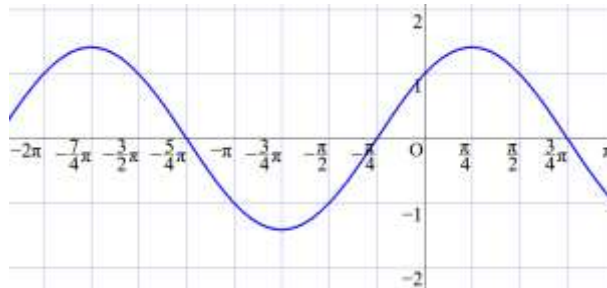
(図1)



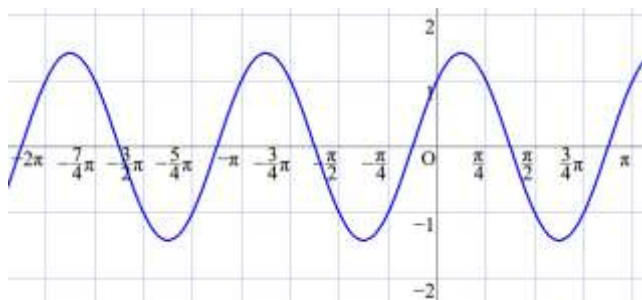
(図2)



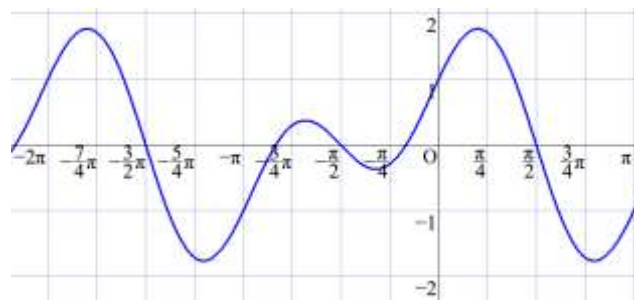
(図3)



(図4)



(図5)



(図6)