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Homework 2

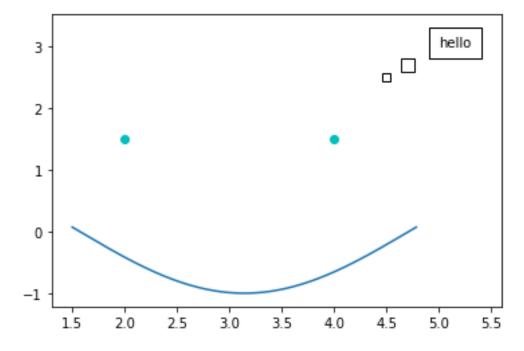
Checking for palindromes in a list...

```
In [1]:
          import numpy as np
          import matplotlib.pyplot as plt
          words = ['racecar', 'peach', 'kayak', 'noon', 'mathemati
In [4]:
          def palindrome check(word):
In [16]:
              boolean = True
              while len(word) > 1:
                  if word[0] != word[-1]:
                      boolean = False
                      break
                  else:
                      word = word[1:-1]
              return boolean
In [25]:
          palindrome = []
          not palindrome = []
          for word in words:
              if palindrome check(word):
                  palindrome.append(word)
              else:
                  not palindrome.append(word)
          print("These words are palindromes: " + str(palindrome)[
In [36]:
          print("These words are not palindromes: " + str(not pali
         These words are palindromes: 'racecar', 'kayak', 'noon',
          'rotator'
         These words are not palindromes: 'peach', 'mathematics'
```

Graph smiley face

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Out[103... Text(5, 3, 'hello')



In []: