## 2. Iterative Statements, Methods, Arrays and Recursion (a) Using iterative statements, write code to calculate the result of the following equation.

number or not.

 $\sum_{x=1}^{100} (x^2 + 3)$ 

[5]

(c) Using your previous answer, write code that fills an array with the first 20 prime numbers.

(d) Write a recursive method that takes an array of integers (named a) as an input parameter and finds the value of the largest element.