Computer Science I	Math
Conditionals	70, 80, 90, 100 Point Version
Assignment Purpose:	

The purpose of this assignment is check your understanding of math library methods.

To get the points for this assignment, you must write a program that outputs the same output for the tested values in the problem instructions.

Making the file:

1. Create a new Python file called: MathMethodLab_yourLastName Grading:

To get a 70 you must complete 1 of the 4 mini labs.

To get an 80 you must complete 2 of the 4 mini labs.

To get a 90 you must complete 3 of the 4 mini labs.

To get a 100 you must complete 4 of the 4 mini labs.

Write a method called distance to

- find the distance between two input integers representing values on the number
- find the distance between two input decimals representing values on the number line.

Test the following values to see if your code works.

-3.3 5.8 65 -88 24.9 1678.4

Output needs to be as follows (needs to be the SAME)

----jGRASP exec: python TypeTest.py The distance from 3 to 5 is 2 The distance from -3.3 to 5.8 is 9.1 The distance from 65 to -88 is 153 The distance from 24.9 to 1678.4 is 1653.5

----jGRASP: operation complete.

Write a method called areaVolumeLength to

- the values need to be passed in as a parameter and
- find the area of a square whose side length is num.
- find the volume of a sphere whose radius is num.
- find the length of the side of a square whose area is num.

Test the following values to see if your code works.

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Output needs to be as follows (needs to be the SAME)
----jGRASP exec: python TypeTest.py
      The area of a square whose side length is 5 is 25
      The volume of a sphere whose radius is 5 is 523.6
      The side length of a square whose area is 5 is 2.24
      The area of a square whose side length is 82 is 6724
      The volume of a sphere whose radius is 82 is 2309564.9
      The side length of a square whose area is 82 is 9.06
 ----jGRASP: operation complete.
Write a method called sheetsPlywood to
     find the minimum number of 4 X 8 sheets of plywood it would take to cover a roof
      when the total amount needed in square feet pasted in as a parameter.
Test the following values to see if your code works.
200
988
Output needs to be as follows (needs to be the SAME)
----jGRASP exec: python TypeTest.py
      A 200 square-foot roof needs a minimum of 7 sheets of plywood
      A 988 square-foot roof needs a minimum of 31 sheets of plywood
 ----iGRASP: operation complete.
Write a method called maxDVDs to
   • find out the maximum number of DVDs Johnny can buy from Wal-Mart if the price for
      each DVD (including tax) is $8.99 and the amount of money he has in his wallet is a
      value pasted in as a parameter.
Test the following values to see if your code works.
26.25
53.94
Output needs to be as follows (needs to be the SAME)
----jGRASP exec: python TypeTest.py
      With $26.25, Johnny can buy 2 DVDs
      With $53.94, Johnny can buy 6 DVDs
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----jGRASP: operation complete.