Solution Review: Calculate the Area of the Sphere

Let's go over the solution review in this lesson.



Solution

```
#include <iostream>
using namespace std;

int main() {
   // Initialize a variable r
   double r = 10.1;
   // Prints value of r
   cout << "r = " << r << endl;
   // Initialize a constant pi
   const double pi = 3.14;
   // Declares a variable area
   double area;
   // Find the area using a given formula
   area = 4*pi*r*r;
   // Prints value of area
   cout << "area = " << area;
}</pre>
```

Explanation

Line No 6: Since r can have floating-point values, the data type of r is double

Line No. 10: Creates a constant pi whose data type is double

Line No. 12: Declares a variable area of type double

Line No. 14: The following line is written to calculate the area:

```
area = 4*pi*r*r;
```

Let's wrap up this chapter by completing a a quiz in the upcoming lesson.	