Homework Questions

## Topics Covered:

* Primitive Data: int and double
* String Literals
* Creating Variables
* Good Names for Variables
* Assignment Operator
* Arithmetic Operators

Create the appropriate variables to solve the following questions (all answers should be displayed to the console in a very readable manner):

1. Write program that can calculate the area of circle. You will need to create variables for the radius and the area.
2. Write a program that can calculate the volume of a sphere.
3. Create a program that can solve the equation y = ax2+bx+c given a, b, c and x.
4. Write a program to calculate the slope of a line give (x1, y1) and (x2,y2).
5. Write a program that given the number of pennies, nickles, dimes, quarters, loonies and toonies calculates how much money the user has.
6. Math.sqrt(x), where x is a value can be used to calculate the square root. Give an equation in the format from question 3. Obtain the two roots.