CMP167 - Quiz #07

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Results:		Class:	
		Date:	

- 1. What Python reserved word starts with a class definition?
 - a. def
 - b. class
 - c. object
 - d. __init__
- 3. What does the following expression evaluate to: not a and (b or c) == (a and b) or (a and c)
- 5. Functions that live in objects are called instance variables
 - a. True
 - b. False
- 7. In a Python class, the constructor is called __init__
 - a. True
 - b. False

- 2. A method definition is similar to a(n):
 - a. loop
 - b. module
 - c. import statement
 - d. function definition
- 4. New objects are created by invoking a constructor
 - a. True
 - b. False
- 6. An object may have only one instance variable
 - a. True
 - b. False
- 8. Within a method definition, the instance variable x xould be accessed via which expression:
 - a. x
 - b. self.x
 - c. self[x]
 - d. self.getX()
- 9. What is the difference between instance variable and "regular" function variables?

Extra Credit: Write a class to represent the geometric solid sphere. Your class should implement the following methods:

- __init__(self, radius): creates a sphere of given radius
- get radius(self): Returns the radius of this sphere
- surface_area(self): Returns the surface area of the sphere
- volume(self): returns the volume of the sphere

Surface Area of Sphere = $4 * \pi * r^2$

Volume of Sphere =
$$\frac{4}{3} * \pi * r^3$$

Use the back of this page for your answer.