

CSC 330 Principles of Programming Language

Assignment III

1. (4 points) **Complete the Class**

```
import math
```

```
class Circle:
```

```
    # Complete Here
```

```
a, b = Circle(3), Circle(4)
print(a.radius) # output: 3
print(b.area()) # output: 28.274333882308138 (Hint: r * r * math.pi)
print(a) # output: [Circle rad: 3]
print(repr(b)) #output: Circle(4)
c = eval(repr(a))
print(c) # output: [Circle rad: 3]
print(a == c) # output: True
d = a + b # Hint: d.r = math.sqrt(a.r^2 + b.r^2 )
e = a * 4 # Hint: e.r = a.r * math.sqrt(4)
f = 4 * b
print(d, e, f) #output: [Circle rad: 5] [Circle rad: 6] [Circle rad: 8]
```