

**AP Unit 8 Four Labs**

page 1 of 2

Pts: 20

Name \_\_\_\_\_

class hour \_\_\_\_\_

**AP Unit 8 Lab 1- Test Harness**

Pts: 5

Note: A Test Harness program is a program that is written to test a Class to see if everything runs correctly.

- I. a) Open **ArcSinApproximater.java** and **AP1ch08Prg8\_2Test.java**
- b) Read Exercise P8.1 on pages 359-360. This class is **ArcSinApproximater.java**
- c) Do Exercise P8.1 on pages 360 by filling in the question marks in the partially completed **AP1ch08Prg8\_2Test.java** test harness program
- d) Run with 1. Do you get the same answer for the first 4 decimal places as your calculator in radian mode for  $\sin^{-1}1$  ? (yes/no) d) \_\_\_\_\_
- e) Run with 0.5 and write the answer for 0.5: \_\_\_\_\_
- f) Save as **AP1ch08Prg8\_2bTest**

**AP Unit 8 Lab 2- Test Harness Loop**

Pts: 5

- I. a) Do Exercise P8.3 on page 360
- b) Run
- c) Save as **AP1ch08Prg8\_3Test**
- d) When perfect, show your teacher the coding and output (run) \_\_\_\_\_  
(teacher signature)

**AP Unit 8 Lab 3- Logging Messages**

Pts: 5

- I. a) Do Exercise P8.8 on page 360 using **AP1ch08Prg8\_2bTest**  
Note: A logging message is a println inserted at strategic spots to view the Run
- b) Run with 0.5 and write the answers for when the exponent is 13
  - 1) term: \_\_\_\_\_
  - 2) total: \_\_\_\_\_
- c) Save as **ArcSinApproximater**

**Over**

**AP Unit 8 Lab 4- Debugging Exercise**

Pts: 5

- I. a) Open **Fibonacci.java**, and **AP1ch08Lab4Test.java**
- b) Read the comments in both files
- c) Run with and input of 6
- d) Fix the one error in the **Fibonacci** file and save it.
- e) Write what thing you fixed:

1) \_\_\_\_\_

**Extra Credit AP Unit 8 - Debugging Exercise** Pts: 2 EC

- I. a) Open **RootApproximater.java**, **Numeric.java**, and **AP1ch08Prg8\_12Test.java**
- b) Do Exercise P8.12 on page 361
- c) Run with 4, then 9
- d) Run with 5 and write the answer for 5: \_\_\_\_\_
- e) Save as **RootApproximater**

**Turn in this sheet to be graded!**