

HW 1

Mathematics and Eclipse Setup

Name: _____ Time spent: _____ min

1) Identify all appropriate classifications for each number

20 pts

put an X in the box

	Natural	Whole	Rational	Irrational	Decimal	Real		Int	Float
2.5									
$-3\sqrt{8}$									
0									
0.0									
-18									
π									
7									

2) Identify if the statement is part of a function definition or a function call. If it is part of a definition, identify the formal parameters, if it is a call, identify the actual parameters 20 pts

X in the box

list of parameters

Definition	Call	Parameters	
		Formal	Actual

ave(a, b, c)= ...

ave(3, 2, 5)

max(9, -3, 2)

color(s1, s3, s5) = ...

flip(a, b)= ...

flip(ave(a,b,c), max(1,2,3))

3) Create a mathematical definition for a function (call it rms) that calculates the sq.root of the mean of 2 numbers that have each been squared 20 pts

4) Use your function to calculate: $\text{rms}(\sin(\Phi), \cos(\Phi))$ 20 pts
you do not need to know the value of Φ

5) Provide a screenshot showing your Eclipse Workspace directory structure
20 pts

