AP Calc AB

Quiz Review

Area between two curves

**\*\*\*Show ALL work that leads to your answers\*\*\***

**Non-Calculator section:**

1. Region *R* is bound by the graphs of the functions and . Sketch

region *R* and find the area of region *R*.

2. Region *S* is bound by the graphs of the equations,, , and

. Sketch region *S* and find the area of region *S*.

3. Region *R* is bound by the graphs defined by the equations:

  and 

 Set up and simplify the integral expression that would give you the area of region *R*.

4. Region *A* is bound by the functions and . Set up but do

not evaluate an integral expression that includes more than one integral that will give you the

area of region *A*.

**Calculator section:**

5. Region *R* is bound by the graphs of the functions  and .

Sketch a graph of region *R* and find the area of region *R*.

6. Region *K* is bound by the graphs of the functions ,  and the

graph of the equation . Sketch a graph of region *K* and find the area of region *K*.

7. Region *S* is bound by the graphs of the equations and .

Sketch the graph of region *S* and find the area of region *S*.