

## Computer Related Assignment #3, due Thursday (11/9)

1. Write a computer program using the Recursive Trapezoid Formula (1) on Page 211 to compute  $R(n, 0)$  for  $n = 0, 1, 2, 3, 4, 5$ , for  $\int_1^5 \ln(x^2) dx$ .

(Paste your computer program and output (printed to 6 decimal places) here: )

2. Using the  $R(n, 0)$  for  $n = 0, 1, 2, 3, 4, 5$ , in Part 1 above, write a computer program using the formula (2) on Page 218 to compute the triangular array values:

$R(1,1)$   
 $R(2,1)$   $R(2,2)$   $R(3,3)$   
 $R(3,1)$   $R(3,2)$   $R(4,3)$   $R(4,4)$   $R(5,5)$   
 $R(4,1)$   $R(4,2)$   $R(5,3)$   $R(5,4)$   
 $R(5,1)$   $R(5,2)$

(Paste your computer program and output (printed to 6 decimal places) here: )