Q2\_Ans:

2(a):

We know that in Riemann sum technique, we select the numbersthat minimize on every sub-interval

Also, we define Reimann Left (L) and Right (R) as:

Hence, for a monotonically decreasing function, we minimalize the and take the maximum of to minimize the on every sub-interval .

Therefore,

Reduces to

2(b):

So,

We know,

and

Therefore,