

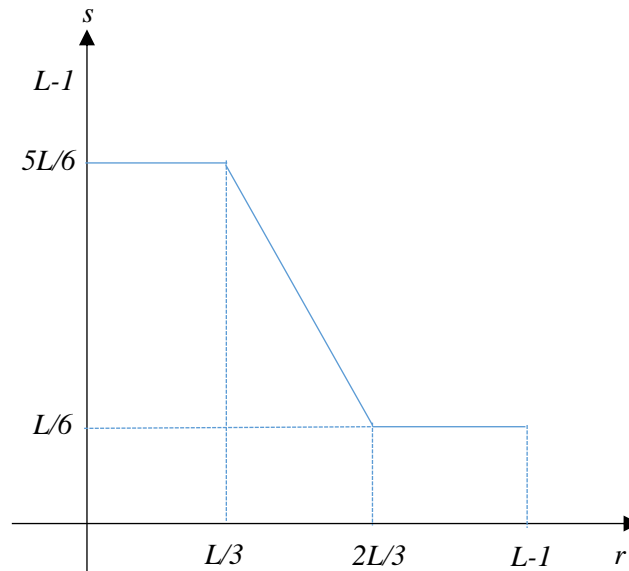
## Assignment #1

Due September 4, 2023

1. Write a program to display the given images using 8, 64, 128, and 256 gray levels and observe what happens to the images.

(Use images from the following files to test your program: flower.jpg, fractal.jpg, and fruit.jpg)

2. Write a program to enhance the 8-bit gray scale images using the given function:



(Use images from the following files to test your program: flower.jpg, traffic.jpg, and tram.jpg)

3. Write a program to enhance the 8-bit gray scale images using the power-law transformation with different combinations of  $c$  and  $\gamma$  when  $c = 0.5, 1, 2$  and  $\gamma = 0.4, 2.5$ .

(Use images from the following files to test your program: cartoon.jpg, scenery1.jpg, and scenery2.jpg)