## ELIC 629: Digital Image Processing Fall 2005

## Lab Four Assignment Questions

- 3.12 Two images, f(x,y) and g(x,y) have histograms hf and hg. Give the conditions under which you can determine the histograms of
  - a) f(x,y) + g(x,y)
  - b) f(x,y) g(x,y)
  - c)  $f(x,y) \times g(x,y)$
  - d)  $f(x,y) \div g(x,y)$
- 3.13 Consider two 8-bit images (e.g., each pixel has 8-bits) whose gray levels span the full range from 0-255.
  - a) Discuss the limiting effects of repeatedly subtracting one image (b) from image (a).
  - b) Would reversing the order of the images yield a different result?