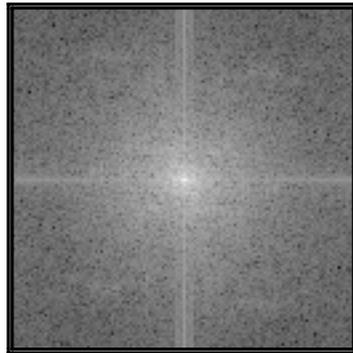


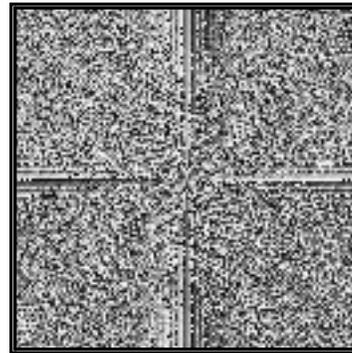
Figure 4a is the original image. Figure 4b is the magnitude of the Fourier transform, scaled as  $\log(\text{magnitude})$  for display purposes. Figure 4c is the phase of the Fourier transform.



**Figure 4a**

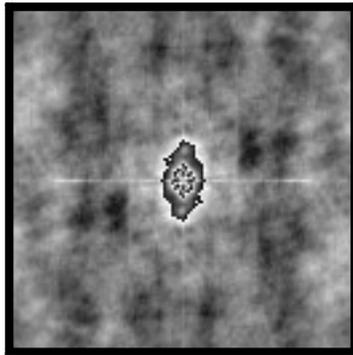


**Figure 4b**



**Figure 4c**

Both the magnitude and the phase are needed for faithful reproduction of the original image.



**Figure 5a**



**Figure 5b**

Figure 5a shows image restoration based only on the magnitude. It is a miserable failure. Figure 5b shows image restoration based only on the phase. It is recognizable, but lacks magnitude to display contrast and a complete complement, from pure white to darkest black.