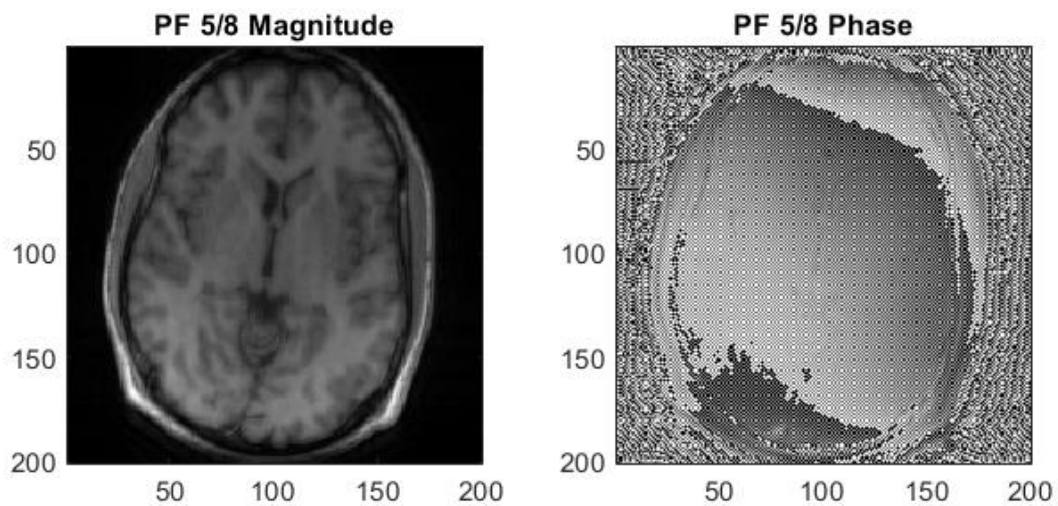


## Homework 3

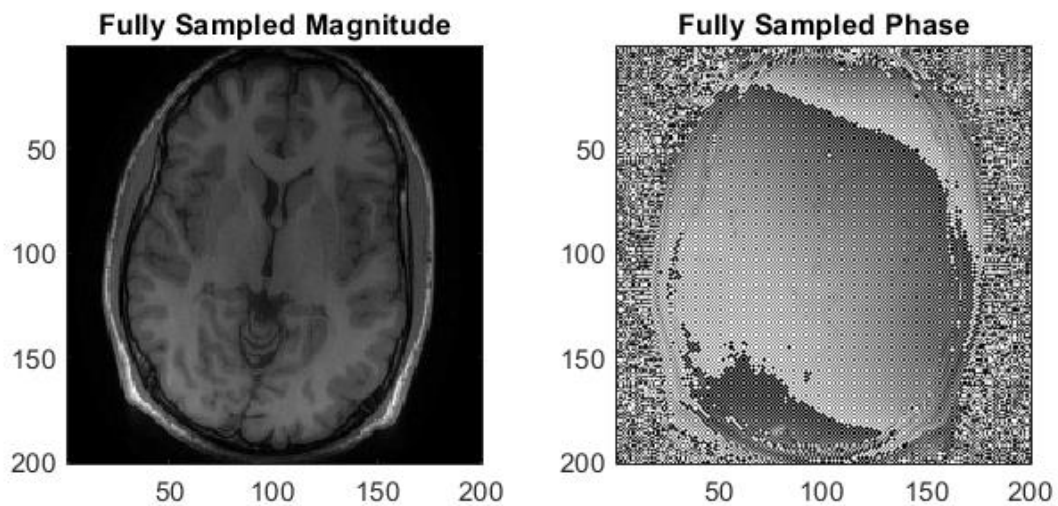
### **Question 1**

#### *Question 1a*

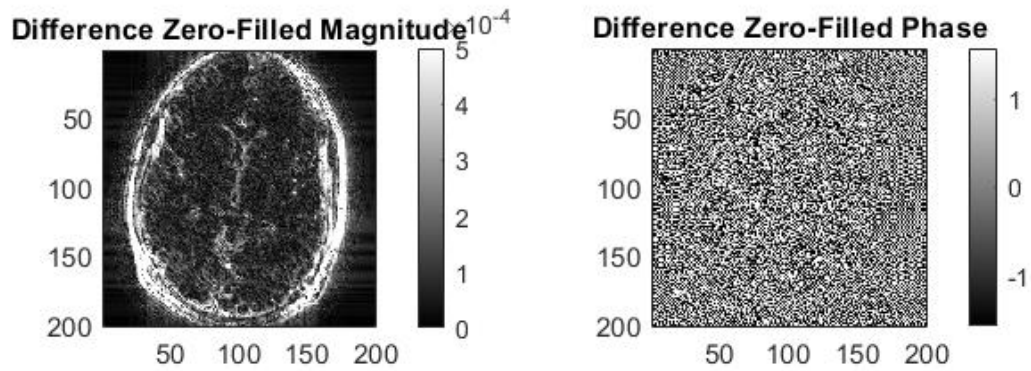
See attached code for details (section Question 1). Resultant zero-filled reconstruction on PF 5/8 data:



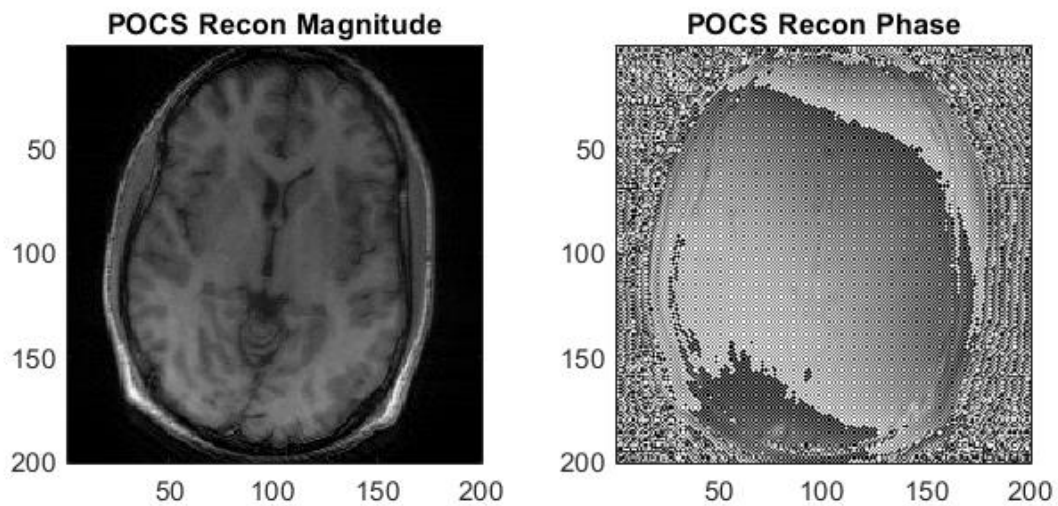
The fully sampled image:



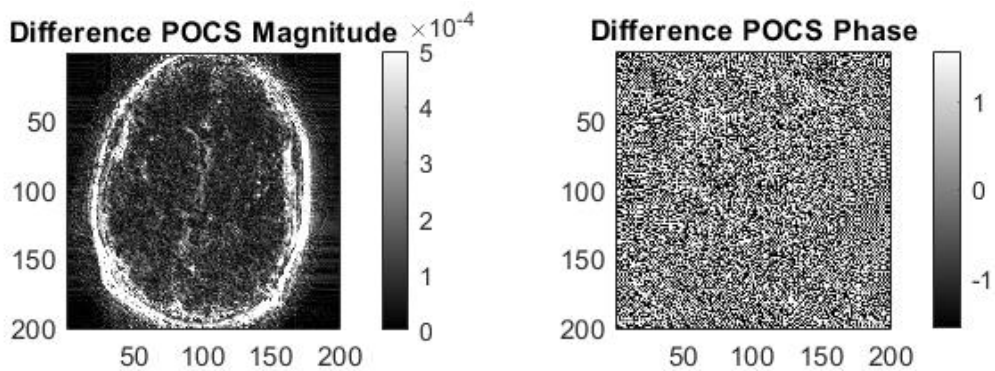
The difference between the fully sampled and zero-filled recon:

*Question 1b*

See attached code for details (section Question 1). Resultant POCS reconstruction on PF 5/8 data:

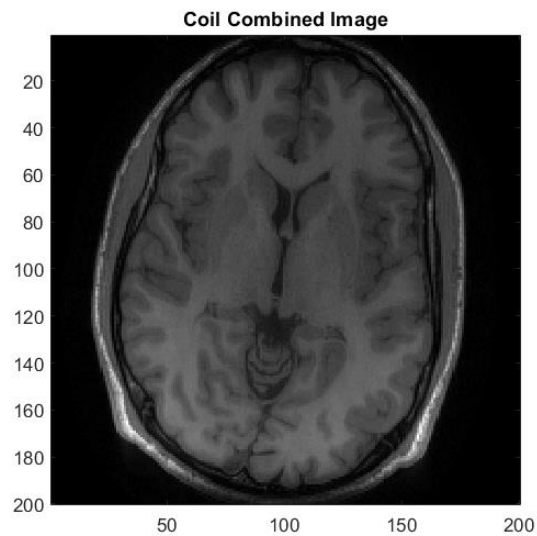


The difference between the fully sampled and POCS recon:

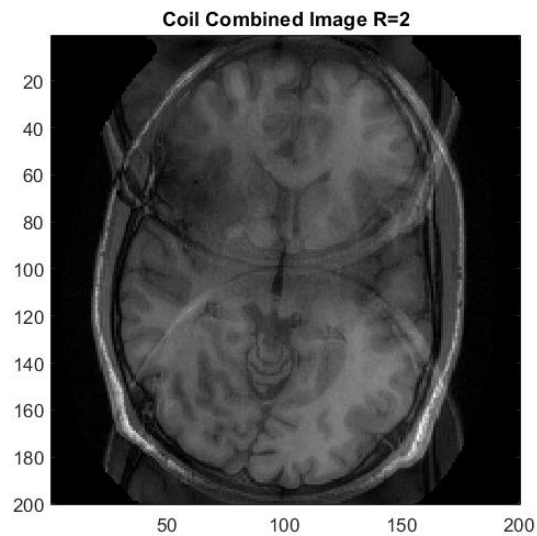


**Question 2***Question 2a*

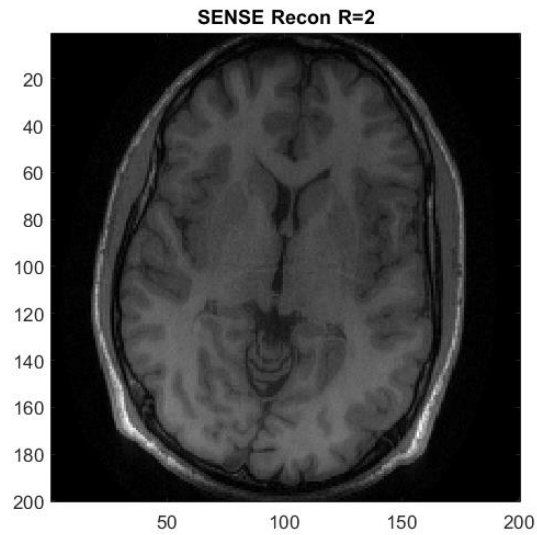
See attached code for details (section Question 2). The fully sampled coil-combined image:

*Question 2b*

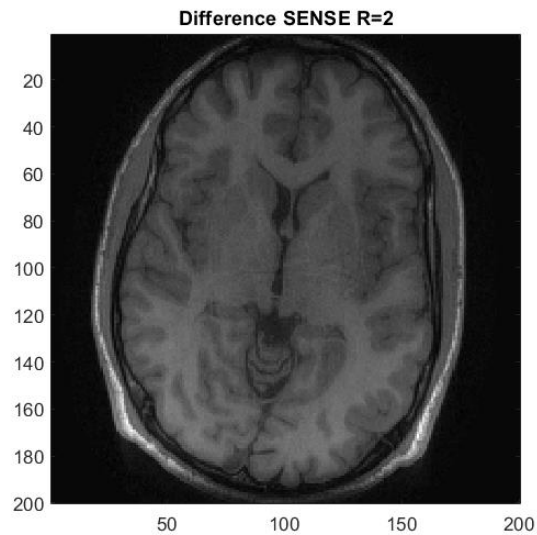
See attached code for details (section Question 2). The under sampled,  $R=2$ , coil-combined image:

*Question 2c*

See attached code for details (section Question 2). The under sampled,  $R=2$ , SENSE reconstructed image:

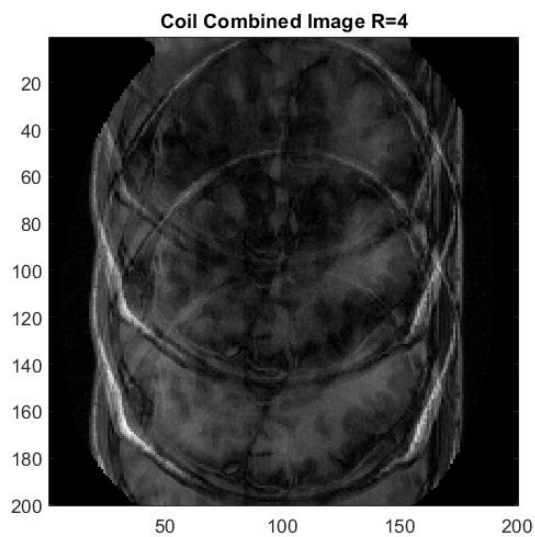


The difference between the fully sampled and SENSE reconstructed image:

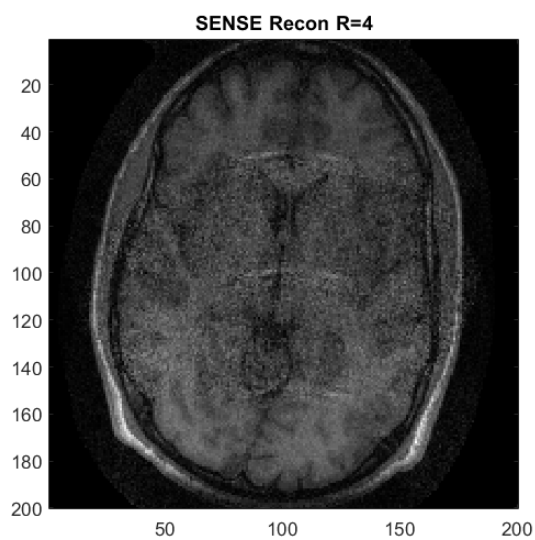


*Question 2d*

See attached code for details (section Question 2). The under sampled, R=4, coil-combined image:



The under sampled, R=4, SENSE reconstructed image:



The difference between the fully sampled and SENSE reconstructed image:

