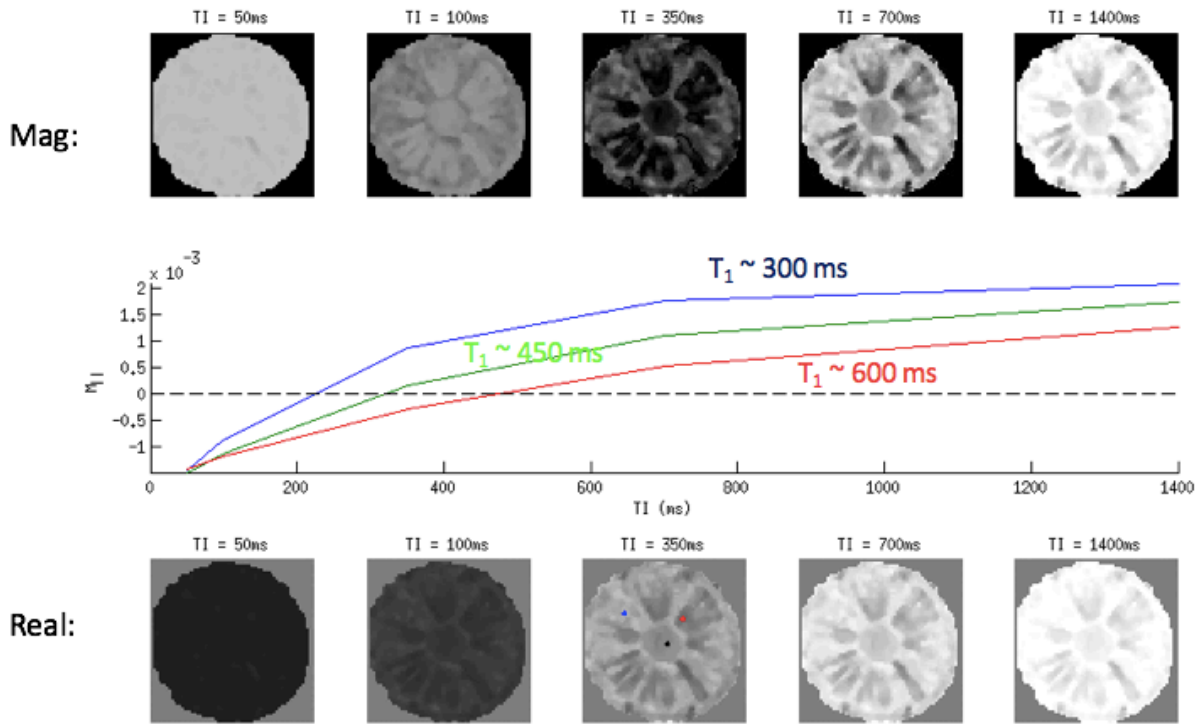**HW6: T1 relaxation (after inversion)**

1) *What is different about the top and bottom rows of images? (1 sentence)*

2)   *What inversion time would you use to null the signal from the "tissue" with T_1 = 450ms?*

Hint: the basic equation describing magnetization as a function of time in an inversion-recovery experiment is M = M_0(1-2$e^{-t/T1}$). You want to find the value of t that sets M equal to 0.

3) *What would be the appropriate inversion time for nulling the signal from the "green tissue" if it only had half as much water in it (half the proton density)?*