

**Due Monday, April 16, in class.**

1. Given a frame of input speech with the autocorrelation values,  $I = 0, 1, \dots, 10$ :

1.0000 0.8618 0.5856 0.2790 -0.0642 -0.4065 -0.6843 -0.7770 -0.7016  
-0.5629 -0.3365

Find:

- (a) The 10th order and all lower order sets of linear prediction coefficients
- (b) The associated mean squared prediction error for the 10th order and all lower order coefficients
- (c) The reflection coefficients or PARCOR coefficients