MAE 582 CompositesName______Test #2 Addendum(print)Dr. R. C. Wetherhold(print)Available: 5 November, 2004Due 10 November, 2004, 9:00Show all work.Pledge: I have neither given nor received help on this test:

Signed: _____

1) We claimed that a π/N symmetric laminate was thermally isotropic for N \geq 2. Choosing graphite/epoxy from the standard list of PROMAL, demonstrate that the thermal expansion coefficients for N=2 and N=3 are the same. Rotate the N=2 laminate 45° and calculate the coefficients; are they the same? Summarize the results in a table. (8 pts)

2) Use glass/epoxy properties listed in the standard PROMAL data base. Using the class example given for two stacked sublaminates which combine to give one laminate and with layer thickness t= 0.3 mm, plot the value of B_{16} against θ . Hand in your spread sheet or computer program with the plot. (8 pts)