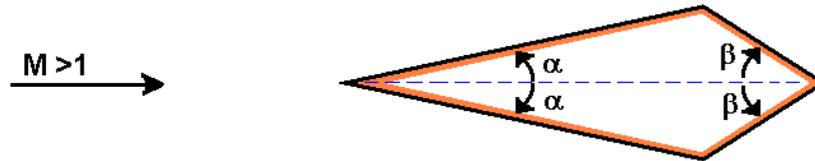## Problem 340A

Find an expression for the drag coefficient (based on frontal projected area) of a thin diamond-shaped body in a supersonic flow (Mach number $= M$) in terms of M, α and β: Use the theory for small angles

of turn assuming that both α and β are small. If α is smaller than β how does the drag differ when the body is turned around so that the end with the half-angle β becomes the leading edge?