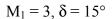
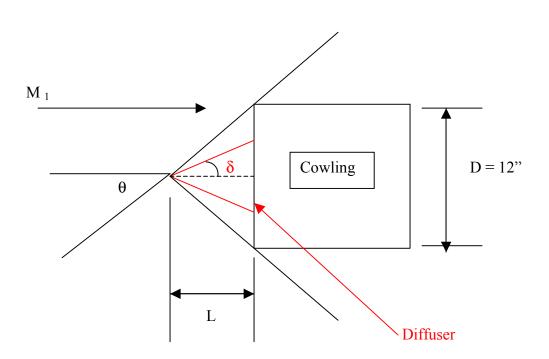
Homework Assignment (Ramjet) Assigned: 11/28/01 Due: 12/5/01

Given the following Ramjet inlet:





Find:

- A) The exposed length of the diffuser (L), which allows optimum shock angle. Note: optimum performance occurs when the shock wave meets the cowling.
- B) With the diffuser cone angle ( $\delta$ ), vary ( $M_{1n}$ ) and plot pressure ratio ( $p_{02}/p_{01}$ ) vs. ( $M_{1n}$ ) for a range of ( $M_{1n}$ ) 1 to 4.