



BONUS-2

Student Name: _____

Grade: $\frac{\quad}{10}$

1- Take two solid, cylindrical specimens of equal diameter, but different heights, and compress them (frictionless) to the same percent reduction in height.

Show that the final diameters will be the same.



2- To what thickness can a cylinder of 5052-O Aluminum that is 4 in. in diameter and 2 in. high be forged in a press that can generate 100,000 lb?

[Note: The condition is frictionless and Y_f for the 5052-O Aluminum = 90 MPa]