

**ME 57200-Aerodynamic Design
Spring 2024**

**In-Class Quiz
05/07/2024**

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True/False Questions (Please circle your answer):

1. Across an oblique shock wave, the Mach number decreases, and the pressure, density, and temperature increase. (2 pt)
☒ True
☐ False
2. Across an expansion wave, the Mach number decreases, and the pressure, temperature, and density increase. (2 pt)
☐ True
☒ False
3. The Mach angle is simply determined by the local Mach number. (2 pt)
☒ True
☐ False
4. The changes across an oblique shock wave are governed only by the component of velocity normal to the wave. (2 pt)
☒ True
☐ False
5. The changes across either a normal shock or oblique shock wave depend on two parameters, the upstream Mach number, M_I , and the wave angle, β . (2 pt)
☒ True
☐ False