

AVIA 101 Homework Assignment # 2  
Answers are located in your Jeppesen Private Pilot Manual

**Chapter 3 Aerodynamic Principles**

1. In straight-and-level, unaccelerated flight, \_\_\_\_\_ equals \_\_\_\_\_ and \_\_\_\_\_ equals \_\_\_\_\_.
2. Describe what is meant by “angle of attack” –
3. What else increases anytime you do something to increase lift?
4. Describe:
  - Parasite drag –
  - Interference drag –
  - Skin friction drag –
  - Induced drag –
5. Describe the term dihedral –
6. What produces yaw movement about the vertical axis?
7. What are the characteristics of an airplane loaded to its forward CG limit?
8. What are the characteristics of an airplane loaded to its aft CG limit?
9. When will a stall occur?
10. What must happen for an airplane to enter a spin?