

## AEM 617 Homework #2

Due: 7<sup>th</sup> Feb 2018

1. Discuss the flight control system for the Gossamer Albatross: pitch, roll, yaw, power
2. Using 14 CFR 23 standards, construct a V-n diagram including gusts for the Pilatus PC-12. Specifications are:
  - Gross weight = 11000 lbf
  - Stall speed = 67 kts (waiver)
  - Wing area = 280 ft<sup>2</sup>
  - Wing span = 53 ft
  - Aspect ratio = 10.0
3. Plot the gearing ratio as a function of the pilot's rudder-bar input angle for the following control system.

