

AEM 313 Problem Set #6

Due: 25th October 2016 by 5:00pm

1. Estimate the thrust and power required to generate the trailing vortices for a Boeing 747-8 at gross weight climbing out at SSL at 150 knots.
2. Assuming C_{do} for the 747-8 is 180 counts, how much excess thrust does the aircraft have during climbout at SSL at 150 knots? The aircraft has 4 engines giving 66500 lbs of thrust each.