





CAO4-PLLT ASEN-3111 Acrodynamics 4/4 Now that you have solved for x (or A, A3, ..., A2N-1), thouse you can compute: CL = A, TR = B  $C_{Di} = \frac{C_L^2}{\pi R} (1+8) = \frac{C_L^2}{\pi e R}$ where  $S = \frac{N}{\sum_{j=2}^{N} (2j-1) \left(\frac{A(2j-1)}{A_1}\right)^2}$   $f = \frac{1}{\sum_{j=2}^{N} (2j-1) \left(\frac{A(2j-1)}{A_1}\right)^2}$   $f = \frac{1}{\sum_{j=2}^{N} (2j-1) \left(\frac{A(2j-1)}{A_1}\right)^2}$   $f = \frac{1}{\sum_{j=2}^{N} (2j-1) \left(\frac{A(2j-1)}{A_1}\right)^2}$ Note we choose odd A coefficients because they produce symmetric contributions to T(6) that are consistent with level cruise. When might we want to consider even A coefficients?