Estimate the wave drag (in “lb”) of Lockheed F-104 Star Fighter on its wing at cruising flight (ignore 3-D effects). Lockheed F-104 Star Fighter has the following design specifications: Wing area = 250 ft$^2$, Weight = 20,000 lb, Cruising Mach number = 2.0 (at 36,000 ft), and Airfoil = very “thin.”

**Hints . . .**
- In level flight (cruising), the lift must be in equilibrium against the weight of the aircraft.
- Apply wave drag equation.