The maximum and minimum values of the pressure on the sphere are thus:

$$p_{\max}(a) = p_{\infty} + \frac{1}{2} \rho U^2, \quad p_{\min}(a) = p_{\infty} - \frac{5}{8} \rho \ U^2$$

taking place at $\theta = 0$ and $\theta = \pi$ (at the location of the rear and forward stagnation points)

In[5]:= **ex**