In the early morning, the profile of potential temperature in a layer adjacent to the surface is described by:

\[ \frac{\theta}{\theta_0} = e^{\frac{h_1}{h_2}} - \frac{z}{h_2}, \]

with \( h_1 > h_2 \). If condensation can be ignored, characterize (describe) the static stability of this layer for all \( z \).