



In Class Exercises (ICE) - 12/8/00

The rate at which barometric pressure decreases with altitude is proportional to the barometric pressure at that altitude. If the barometric pressure is measured in inches of mercury, and the altitude in feet, then the constant of proportionality is $3.7 \cdot 10^{-5}$. Suppose that the barometric pressure at sea level is 29.92 inches of mercury.

- ***Calculate the barometric pressure at the top of Mount Everest (29,000 feet).***

- ***People cannot easily survive at a pressure below 15 inches of mercury. What is the highest altitude to which people can safely go?***

- ***Who was the first person to climb Mount Everest and what country does he come from?***