Homework5: Due 10/22 L15Example2: Measurement of absolute zero (textbook, ch 8, sec. 8.5, page 190)

- Data

P [mm Hg]	65	75	85	95	105
T[^{o}C]	-20	17	42	94	127
σ	1	1	1	1	1

- Functional form

$$T = A + BP$$

- Find:
  - A and B (fit parameters and uncertainties)
  - S_m , ndf , S_m / ndf and p-value.
  - Give interpretation of a p-value
- Compare the known value for the absolute zero temperature (-273.15 ^{o}C) with the fitted parameter. How good is the agreement (or disagreement) Quantify your answer by giving the corresponding p-value and its interpretation.