P-est = P-s*e^(-k*h) Pse(-Nh) P-5=101.7 + 0.4 kg k=1.2x154 h=1616.80 + 0.05 m Grenoral method: SPest = $\sqrt{\frac{dPest}{dPs}} SP-s)^2 + \left(\frac{dPest}{dh} Sh\right)^2 = \sqrt{\left(\frac{-kh}{0.4}\right)^2 + \left(\frac{P.s.-ke^{(-kh)}}{0.05}\right)^2}$ = \(0.108542601) + (2.525947095x10^7) = 0.329 ~ 0.3 Pest = 83.8 ± 0.3 kPa = value 1 83.7667 ± 0.3296 = value 2 SP_est = 83.8±0.3 kPa < value 1 (no change! in results) < this is because of the -k multiplied in the second part of sqrt. (which is x10⁴)

P_est = 83.8±0.3 kPa < value 1 (no change! in results) < second part of sqrt. (which is x10⁴) Bonus: Altitude Uncertainty = 8h = 5m