$\sigma = 0.0080$; SEM = σ / \sqrt{n} cutoff = -0.54 + 1.645*SEM (alpha=0.05, 1 sided alternative) 92% n = 20SEM = 0.0018**83%** n = 15SEM = 0.0021 $n = (1.645 + 0.84)^2 \times (\sigma/\Delta)^2$ qnorm(0.8, 80% lower.tail=FALSE) n = 13.6 SEM = 0.0022-0.84qnorm(0.05, 0.84 * SEM lower.tail=FALSE) 1.645 * SEM . 1.96 $\Delta = 1.645*SEM + 0.84*SEM$ <u>6</u>9% n = 10SEM = 0.002545% n = 5SEM = 0.0036100% milk 1 % water $\Delta = 0.0054$ -0.555-0.550-0.545-0.540-0.535-0.530 -0.525Freezing point (degrees C)