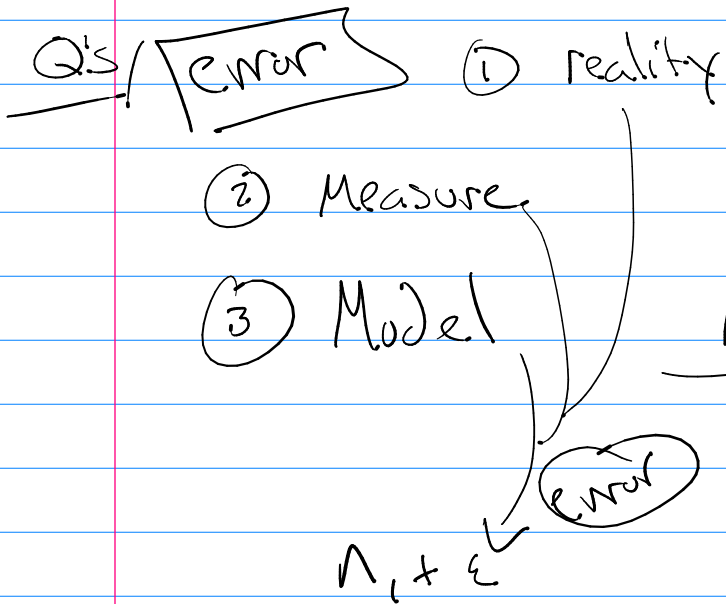
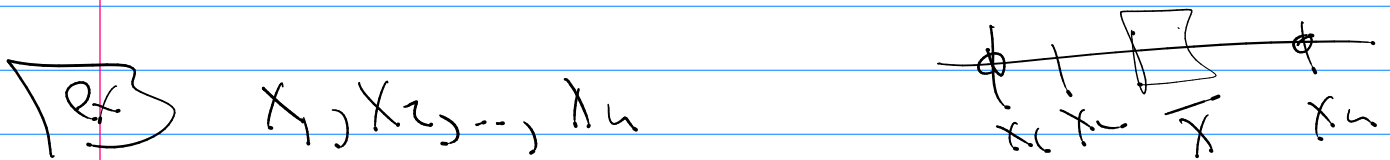
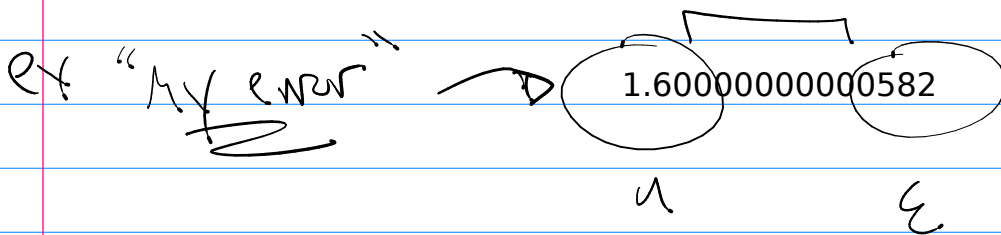


# Math 451



Ideal:  $n_2 = f(n_1)$ ,  $n_3 = f(n_2)$ , ...

Actual:  $n'_2 = f(n_1 + \epsilon_1) = n_2 + \epsilon_2$



$$\bar{x}_a = \frac{x_1 + x_2 + \dots + x_n}{n}$$

$$\bar{x}_h = \sqrt[n]{x_1 \cdot x_2 \cdot \dots \cdot x_n}$$

$10^{3000}$  Inf

$$e^{\ln a} = a$$

$$\ln(\ln(x_1 x_2 \dots x_n))$$

$$\frac{\ln(x_1) + \ln(x_2) + \dots + \ln(x_n)}{n}$$

$$x_n = e = e$$

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## Arrays / Matrices

Reference:  $A(1, 2, 3)$  vs  $A(7)$  (index)

assignment + reference = Masking

logicals:  $and, ==, <, <=, >, >=, \sim$

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Watch the videos