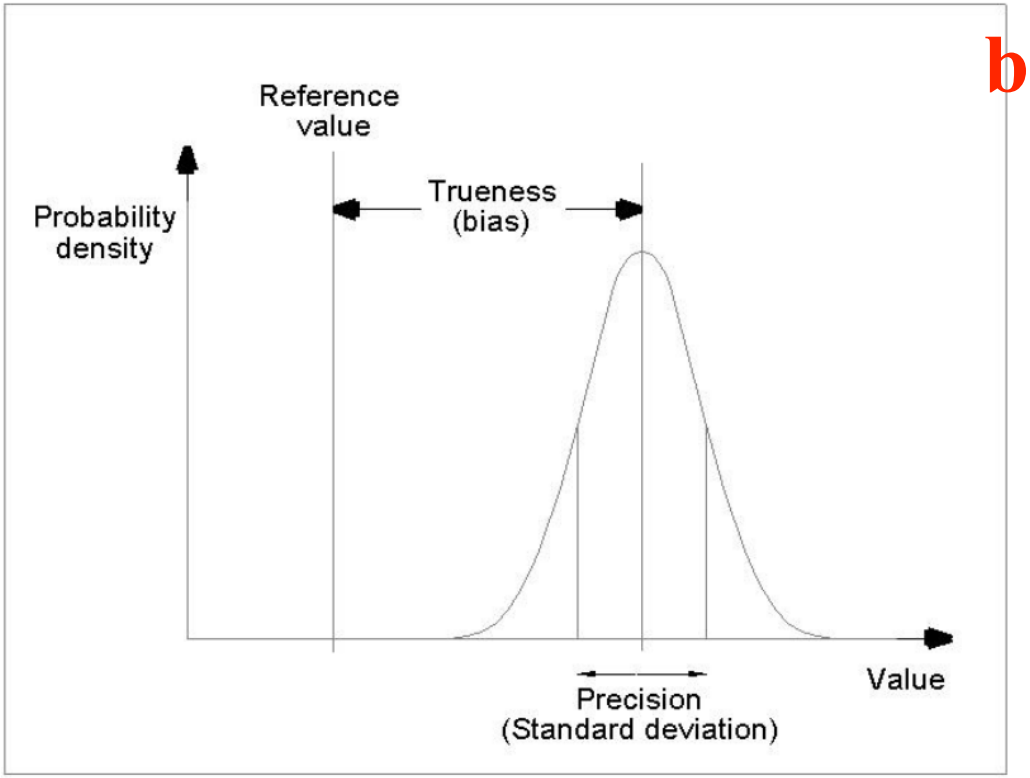
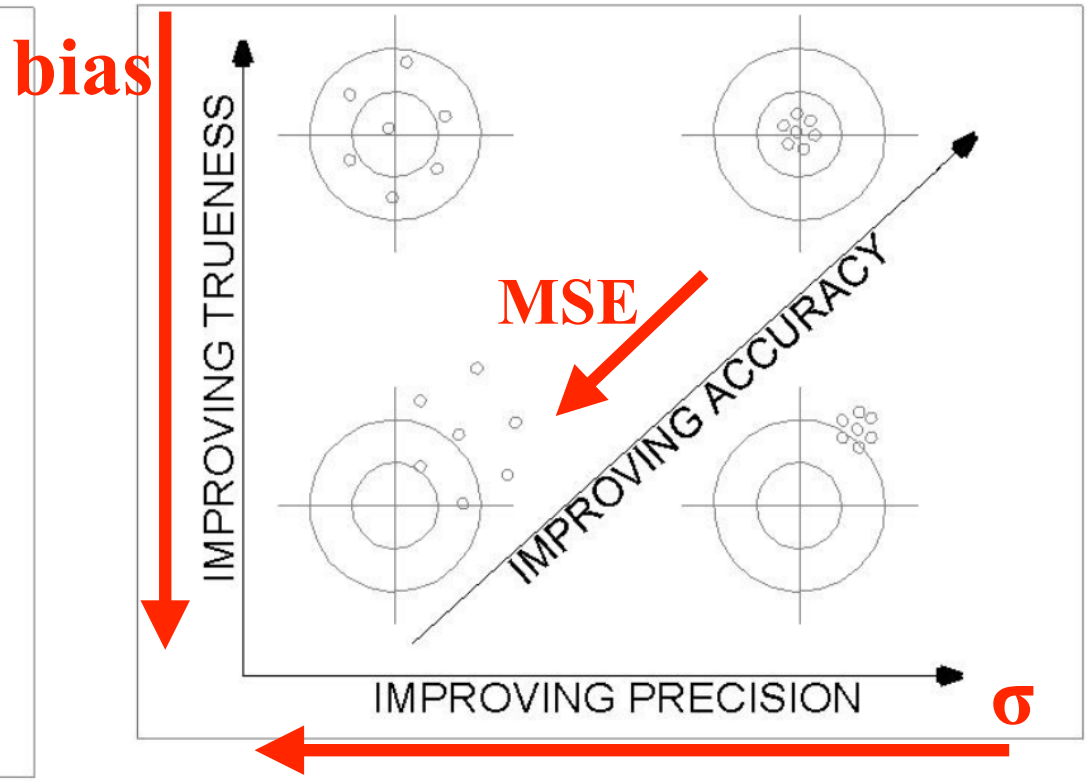
• Measurements with known errors

Let's assume that we have N measurements x_i, and that for each measurement we know the corresponding error distribution, that is, the expected distribution of x_i around the true value μ (which we want to estimate)





Mean Squared Error: $\mathrm{MSE} = V + \mathrm{bias}^2$ (V=variance=σ^2)