PHYS 4A Lab Exam 1 Cheat Sheet (DA IV)

Write Units

Kinematic equations

Project

Uniform Circular Motion

Force

Uncertainties

Discrepancy = |Abest-Bbest|; Tolerance = 2(δA + δB)

Want Discrepancy <= Tolerance

If first sigfig is of uncertainty != 1, round to 1 sigfig

If first sigfig is of uncertainty = 1, round to 2 sigfig

is standard deviation; is standard error

Mean is often best value, is standard error

Best fit

Line of best fit need not intersect any points

Estimate slope from furthest points

Linear Regression (only on Computer)

|  |  |
| --- | --- |
| m | b |
| SEm | SEb |

LINEST(y[], x[], 1,1) ->