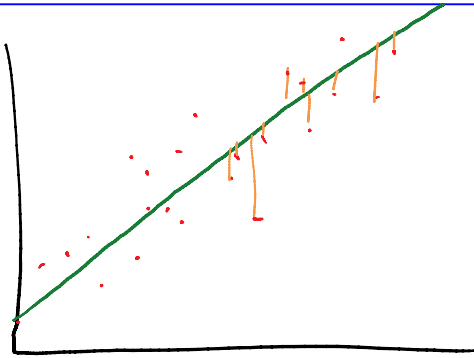


Find data .itx in d2l under Content -> In-class data

Or not...



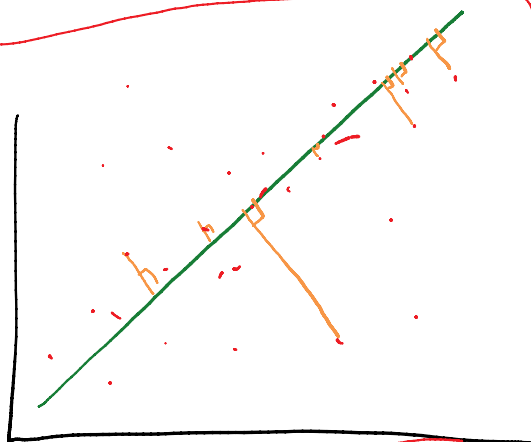
Normal fit

minimizes $(l)^2 \Rightarrow \sum (l)^2 = \chi^2$

assumes

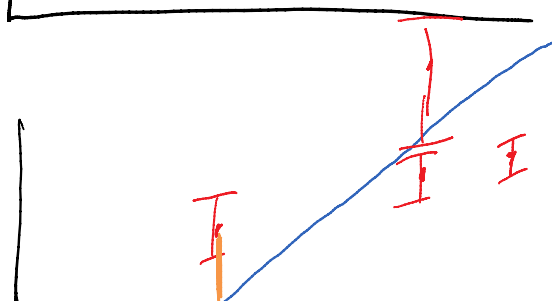
- no uncert. in x values

- unc. in y values
"same" \Rightarrow same σ



minimize $(\lambda)^2$

orthogonal distance
regression (ODR)

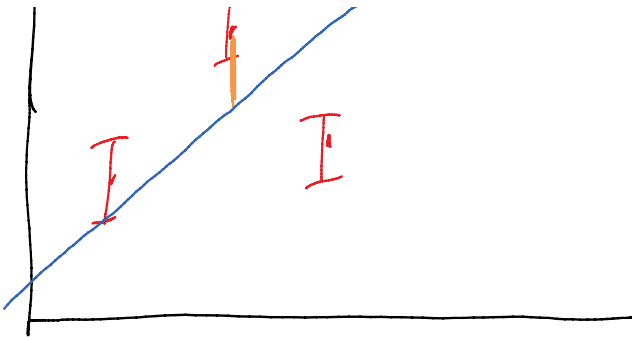


weighted fit

\Rightarrow

distance $\left(\frac{l_i}{\sigma_i} \right)^2$

linear fit



Sometimes
wts defined
as $\frac{1}{\sigma}$ 1 σ

In Igor:

Curve Fit

by default writes to fit — name of y wave

→ overwrites that wave each time you run curve

exam scores:

exam 1 - score

exam 2 - score

exam 3 - score

objects have names

"exam" + str2num(index) + "_score"

name

wave \$ — string

converts a string to an object name

access a wave that exists

wave internalName = \$"exam" + num2str(index) + "_store"

make 10/N = 2 \$"exam" + num2str(index) + "_arg" / wave = internalNm

wave internal name = \$...