

Calculating Equation to 3 Median Line

Once you have constructed your plot you can obtain your equation by choosing 2 points on the line and

menu - (6) - (1) - (4)

HOWEVER: this is only an estimate and will result in lots of variations and some errors

So the best method to use is ...

(1) Enter the 3 median values into your CAS

$$\begin{array}{ll} x_L & y_L \\ x_m & y_m \\ x_R & y_R \end{array}$$

(2) Ctrl I \rightarrow calculator page

(3) menu - (6) - (1) - (5) (median-median line)

(4) This gives you $y = mx + b$
* (NOT $y = a + bx$) *

You can do manually $b = \frac{(y_R - y_L)}{(x_R - x_L)}$

then $a = \frac{1}{3} \left[(y_L + y_m + y_R) - b(x_L + x_m + x_R) \right]$