xMidPerc (upper)

firstX   last X

firstY

upper

down trend

lower

yMid Perc. (lower)

last Y

lower X MidPerc

yMidPerc (upper)

upper XmidPerc.

firstX   lastY
                                    last X

upper

uptrend

lower

b

b'

lower Y midperc

a lower

a'

firstY

upper YMidPerc

lower XMidPerc

$$\frac{a'}{b'} = \frac{a}{b}$$

See Pyth. theorem.