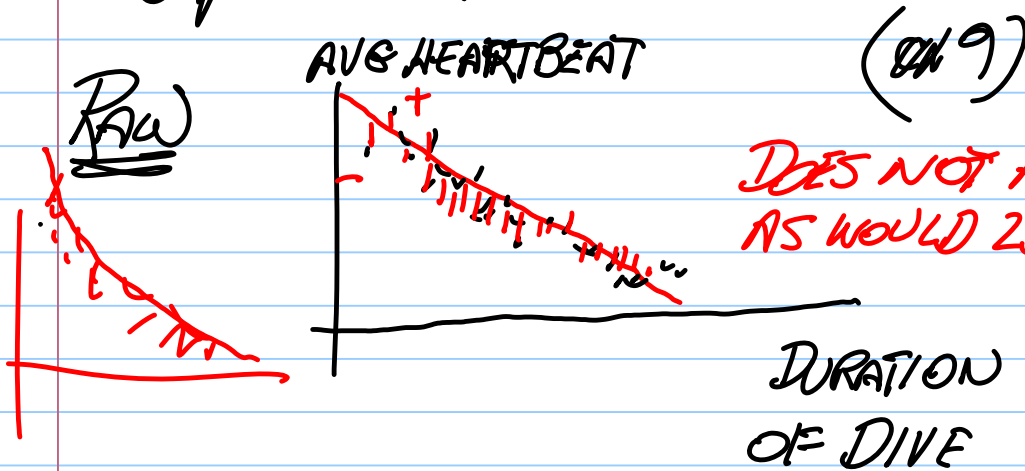


SJT 200 5:30pm 4-14-10a

Ch 10

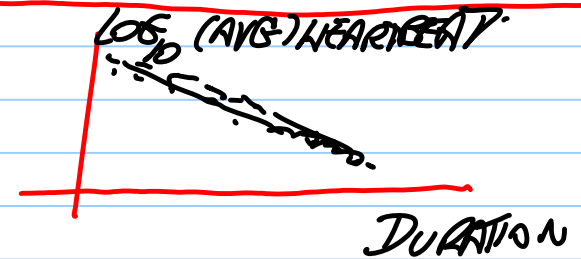
Hano Rooling YOUTUBE
 1.30 LECTURE SERIES
 "GAPMINDER"

NOTE: ON BONUS
 (NEXT m)
 μ_x (EXAM 2 POP MEAN)
 ~ 3.43 ?
 ASKING TO PREDICT
 EXAM 3 GRADE
 IF $X = \text{EXAM 2 GRADE}$
 $= 2.14$?



DOES NOT APPEAR
 AS WOULD 2D NORMAL

→
 PLOT W/
 SCALES ALTERED



PREMIER EXAMPLE

ZIPF'S LAW

INTERCEPTS OF L.S.

ARE $\log_{10}[x]$, $\log_{10}[y]$

$$\log_{10}[x] = x^*$$

$$\log_{10}[y] = y^*$$

$$\bar{x}^*, \bar{y}^*$$

$$r^* \frac{\Delta y^*}{\Delta x^*} \text{ slope}$$

x = RANK OF METRO AREA
(NYC HAD RANK 1)

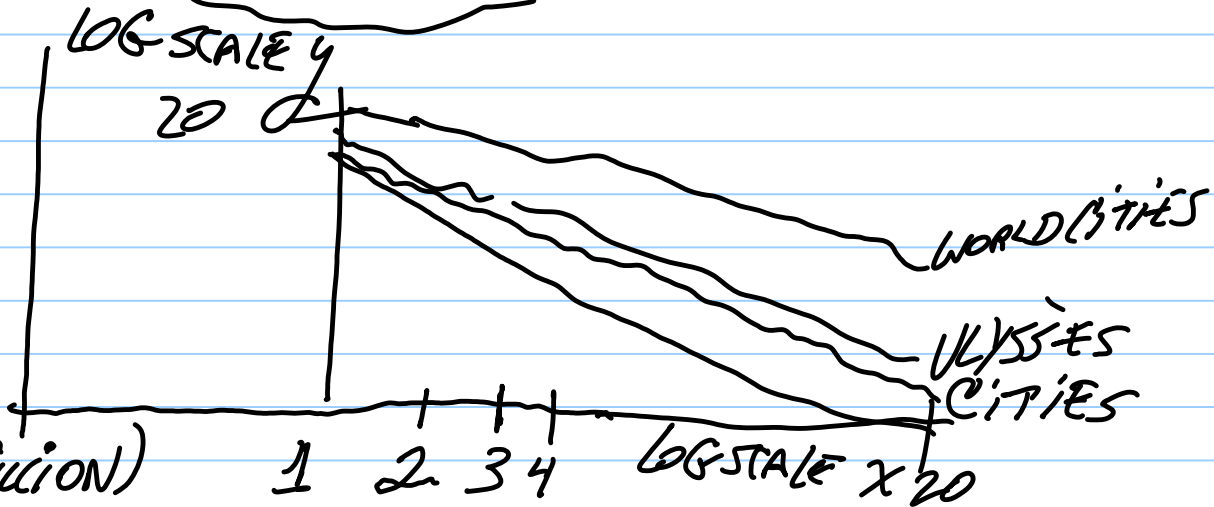
y = POPULATION (NYC HAD 20 million)

NOTE: $y = a x^b$

$$\log_{10}[y] = \log_{10} a + b \log_{10}[x]$$

WANT TO SEE PLOT OF $(\log_{10}[x], \log_{10}[y])$

$\log_{10} 10 = 1$ CK YOUR BUTTON



CH 10 TEXT IS CONCERNED THAT

(a) RESIDUALS SHOW NO PATTERN

(b) RESIDUALS WHEN SUBMITTED TO A
NORMAL PROBABILITY PLOT GIVE ~
STRAIGHT LINE.

THESE ARE CONSISTENT WITH 2D NORMAL DATA
GOOD IF YOU CAN GET IT.

BUT NOT A DEAL BREAKER IF IT FAILS! g tip's