Admy - Com v. v's not on fuil (264) We talked abone depotes v.v.3 and non-zene comme: (m(X,V)= B(-Mx)(Y-my) ≠0 => X,Y deplen Covarine was a hard metric to conseptules => Pr= Con (X,r) = Ca(X,r) = (-1,1) When -1 is pefore, tog. 2550cm and +1 is perforet pos. Their associanion Grane anysis of Theme on recent day. See (X, Y) is reduced in pairs (X, Y) : (x3//2)

(x, /2)

Leene #19

6/27/4

Plan

- rest of ch 6

- ch (1-19.3)

- prosof charmed as be count

As usul, re de not term de parmers 1x, nr, ex, or hor C. so he use stropped to estime them (uperme). X > Mx, y > Mx, Sx > Ox, g > Or  $S_{XY} = \frac{S(X_i - \overline{X})(y_i - \overline{Y})}{h - 1} \longrightarrow Car(X, Y)$ Imple can'm vis-  $\frac{\sum (x_i - \overline{x})(x_i - \overline{y})}{\sum (x_i - \overline{y})^2 (x_i - \overline{y})^2} - \frac{\sum x_i}{\sum x_i} \longrightarrow (x_i + \overline{y})^2$ Just like obered hyp soms so sest when of m, their hyposless! tests to test values of & which he has con Since here going to too something more pariful. If stere wan my vorondeles (ingine & table with lots of what) Hen a con mind lists the single con for each pair Age Price Size Age 2.50 2.67
Price 0.13
Size talk about disgone and Symmetry

Loolog as populars + response (dep) Ore make geopl/hd/ is consider 9 Junton of the other hit hoise They so look for 1 drector Looks for end likeon @ hearing dom cynyn ondin, (2) Varin Sprend Pode me soft 3 Julan Benne of Support's pandon ch b. A: associates on the (glow all of chila) We will now deme all these fandes The right is "regression" - 9 strage word which will tolk apar tommon jo las suo pour good: 1) TO best police a response gran the per copining value (2) To thesayore how significant a predictor is in affecting Change is the regions Goal #2 you will cover ad-houseon in See 102. For now, gur goul is #1.

hermal who de 0, X's are. deserte lis assover i liver, pos Joes this run being teller crosses you to can noe may? NO Consulation - Consular Sprom Ch 6-8 liff benen con al assour.? We lead before store my be a kirthy morable and we can ger Suport Pandox (when controlly for a herby verible, associator on chape) Less sy 0's an mour, X's are ner When hyper so be resocren? VF 00-9-00 GONB! Why was the an associa the begin int? Heigh sale you somethy som gender and get ren no correlin no cordin => Jacobs (Whyedin)

harmel. In advand courses spill see the shop ining assimption just Im a for of benefits.

Now, we my so morne the total ment of this even one all pss. .. So he may so misure:

$$\frac{2}{c_{i}} err \left( \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \right) = \frac{2}{c_{i}} \left( \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \right)^{2} = \frac{2}{c_{i}} \left( \frac{1}{\sqrt{2}} - \left( \frac{1}{2} \frac{1}{\sqrt{2}} \right) \right)^{2}$$

$$= \frac{2}{c_{i}} \left( \frac{1}{\sqrt{2}} - \frac{1}{2} \frac{1}{\sqrt{2}} \right)^{2}$$

$$= \frac{2}{c_{i}} \left( \frac{1}{\sqrt{2}} - \frac{1}{2} \frac{1}{\sqrt{2}} \right)^{2}$$

both impect to all possible vals of bo, by. How do he do oby? Pender calcular? Less do bo first!

$$\frac{\partial}{\partial b_0} \left[ \sum_{i=1}^{h} (y_i^2 + b_0^2 + b_1^2 x_i^2 - 2y_i b_0 - 2y_i b_1 x_i + 2b_0 b_1 x_i) \right] = 0$$

$$\Rightarrow b_1 = r \frac{5y}{5x}$$

From humane and biname statestics, you can compare slage + interpret

f blow for line.

$$\hat{y}_i = y - b_1 x + b_1 x_i = y + b_1 (x_i - x) = y + r \frac{S_x}{S_x} (x_i - x)$$

Look on does

$$\stackrel{=}{\Rightarrow} \frac{y_{i} - y}{s_{y}} = r \left( \frac{y_{i} - x}{s_{x}} \right)$$