· Regression: Method of estimating value of one variable when value of other is known and they are correlated 2 variables & Lines of Regression for - 17 1 y on x 2 may evaluation of data problems equation: y = a + b x x = p+qy Use to wormatised egn who we To find a f b, use normalised egn Zys a N+(Zx)b

Zxy= aZx+bZx² " phq " " Z x = pN + 9, Zy 2 xy= pzy + 92y2 2 Eolphicents of Regression: given by bxy given by byx (y-q) = byx (x-x) (x-x) = bxy (y-y) $b_{yx} = x \sigma_{x} = Z(x-x)(y-y)$ $\sigma_{x} = Z(x-x)(y-y)$ $d_{x} = x - q$ $d_{y} = y - b$ hbxy = 8 5 x 8 = 1 = 2 (x-x)(y-y) mm oy Z (y-y)2 dx = x - a dy = y - hby = Zdxdy - Ndxdy bry = Zdxdy - N(dx)(dy) Zd, - N(dy) = Zxy - Nxy, Zy - N(g)2 = 7xy - Nxy 2x2 - Nx2





