a >> The Equations of 2 lines of regression, Obtained in a Correlation analysis beth variables x and Y are as follows: 22+348=0 29 + x - 5 = 0The Variance of x=4 Find the a) Variance of y b) Coefficient of determination of C & y 1) Standard error of estimate of xony & youx Soin=> The given ear of lines of ocgression are 2x + 3y - 8 = 0 - . (i) 29+2-5 = 0 - - - (ii) From eqh (i) y = 8 - 2xy = -0.66 x + 2.66 → Regrassion line of youx From ean by = -0.66 = y ou -... (iii) From eqh (ii) 2c = -24+5 -> Regression line of 2c on y From above ear $b_{xy} = -2 = 8 \frac{\sigma_x}{\sigma_y} - - \cdot (in)$ From ean (i) From earl (ii) C = 5

$$8^2 = byx \times bxy$$

From e_4^b (iii) 8 (in)

 $8^2 = -0.66 \times -2$
 $8^2 = 1.32$
 $8 = 21.148$

But by and by being both - re therefore, & is elso-re

Variance of sc i.e,
$$\sigma_n^2 = 424$$

 \vdots $\sigma_n = \sqrt{4} = 2$

$$-1.148 \times \frac{69}{2} = -0.66$$