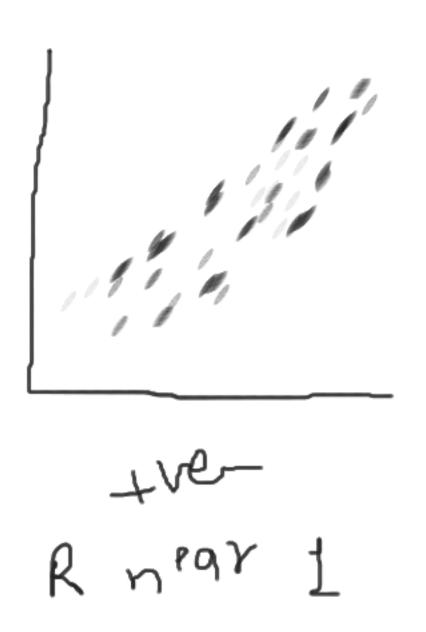
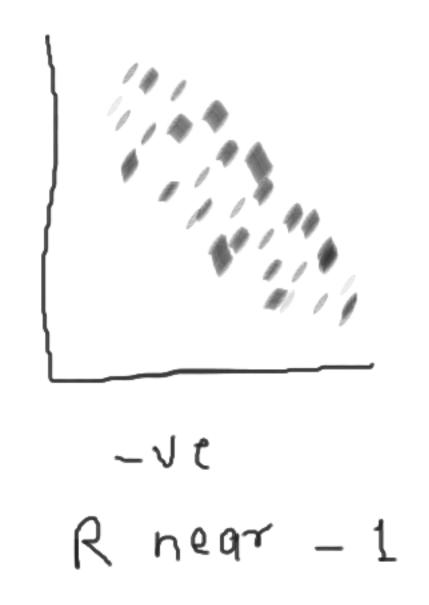
Correlation







Variance

$$\sqrt{-\frac{2}{x^2}}$$

$$\frac{1}{10}$$

$$\frac{1}{20}$$

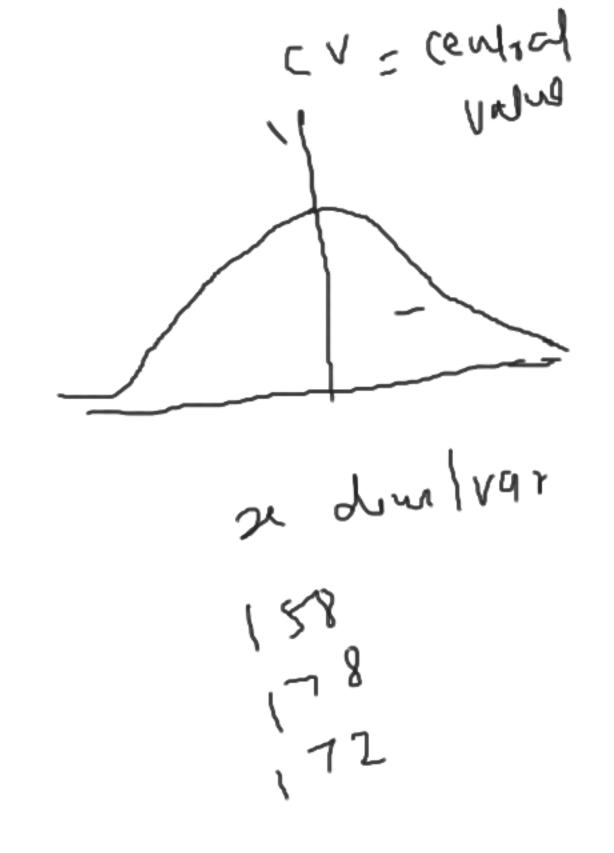
$$-\frac{20}{5-1} = \frac{20}{4}$$

$$-\frac{4+1}{5} = \frac{5}{4}$$



when 1 var 15 thert

(xi- 2)



Covariance

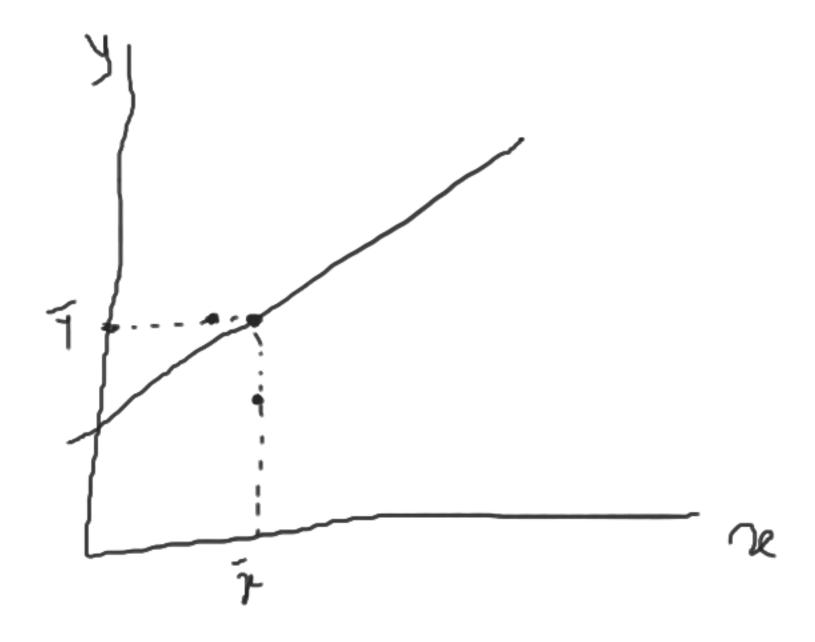
$$COV = C$$

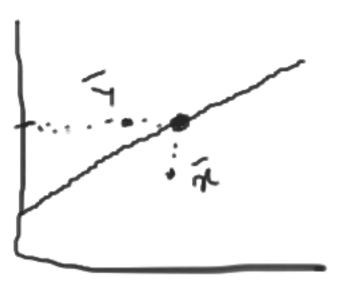
$$|a|^{2} = \left(\frac{2i-2}{2}\right)^{2}$$

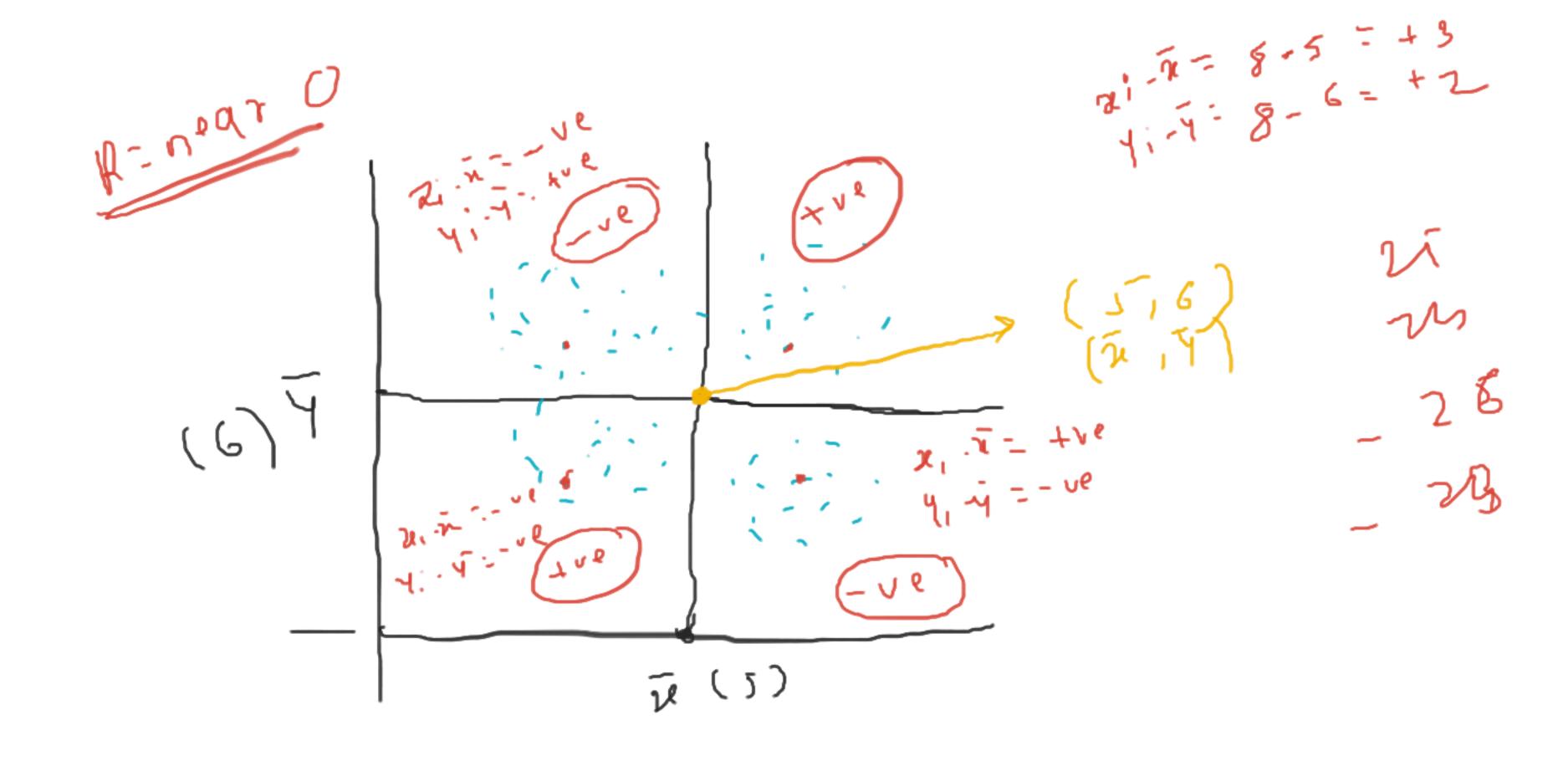
$$(6) std = \sqrt{\left(\frac{2i-2}{2}\right)^{2}} - 1 var$$

Pearson's Correlation Coefficient

$$R_{(3,4)} = \frac{E(x, -\bar{x}) \times (4, -\bar{4})}{\sqrt{E(x, -\bar{x})^2} \times \int \frac{E(4, -\bar{4})^2}{E(4, -\bar{4})^2}} - Sha(x), Sha(4)$$







Rnegar

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Beacuse of Random sampling while computing correlation there could be statistical fluke.

