Let tomewide
$$p = \overline{y} - a\overline{x}$$
, boosta que $a = \frac{cov(x_{ju})}{var(x_j)}$
 $cov(x_{ju}) = \frac{1}{n} \sum_{i=1}^{n} (y_i - \overline{y})(x_i - \overline{x})$
 $= \frac{1}{n} \sum_{i=1}^{n} (ax_i + b - (a\overline{x} + b))(x_i - \overline{x})$
 $= \frac{1}{n} \sum_{i=1}^{n} (ax_i - a\overline{x})(x_i - \overline{x})$
 $= \frac{1}{n} \sum_{i=1}^{n} (x_i - \overline{x})(x_i - \overline{x}) = a \text{ Vor}(x)$
 $= \frac{1}{n} \sum_{i=1}^{n} (x_i - \overline{x})(x_i - \overline{x}) = a \text{ Vor}(x)$
 $= \frac{1}{n} \sum_{i=1}^{n} (x_i - \overline{x}) = \sum_{i=1}^{n} \frac{ax_i + b}{n} = a \overline{x} + b$
 $= \frac{1}{n} \sum_{i=1}^{n} (x_i - \overline{x}) = \sum_{i=1}^{n} \sum_{i=1}^{n} (x_i - \overline{x}) = a \overline{x} + b$
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 $= \frac{1}{n}$

4.2)c).
$$Cov(x',y') = Cov(x',y') = Cov(x,y') = Cov(x,y')$$
.
 $Cov(x',y') = \frac{1}{n} \sum_{i=1}^{n} (x_i')^2 (y_i')^2$.
 $= \frac{1}{n} \sum_{i=1}^{n} (x_i-\bar{x})^2 (y_i')^2 = Cov(x_iy_i)$.
 $= \frac{1}{n} \sum_{i=1}^{n} (x_i-\bar{x})^2 (y_i-\bar{y})^2 = Cov(x_iy_i)$.
 $= \frac{1}{n} \sum_{i=1}^{n} (x_i')^2 (y_i'-\bar{y})^2 = Cov(x',y')$.
4.2.d)

 $R(x_iy_i) = \frac{1}{n} \sum_{i=1}^{n} (x_i')^2 (x_i',y_i') = \frac{1}{n} \sum_{i=1}^{n} (x_i')^2 (x_i',y_i') = \frac{1}{n} \sum_{i=1}^{n} (x_i',y_i') = \frac$

4.3). a)
$$\overline{2}x = \overline{2}y = 0$$
.

$$\overline{2}x = \frac{1}{h} \sum_{\beta=1}^{n} \frac{x_1 - \overline{x}}{\sqrt{va_1 x}} = \frac{1}{\sqrt{va_1 x}} \left(\sum_{i \neq 1}^{n} \frac{x_0}{n} - \sum_{i \neq 1}^{n} \frac{\overline{x}}{n} \right) = \frac{1}{\sqrt{va_1 x}} \left(\overline{x} - \overline{x} \right) = 0$$

$$y = 0 \text{ can a log } 0$$

Var
$$(2x)=$$
 Var $(2y)=1$.
Var $(2x)=\frac{1}{n}\sum_{i=1}^{n}\left(\frac{1xi-x-01}{\sqrt{varx}}\right)^2=\frac{1}{var(x)}\sum_{i=1}^{n}\frac{1xi-x^2}{n}$

R(xy) =
$$Cov(Zx, Zy)$$

 $R(xy) = \frac{1}{n} \sum_{i \ge 1} \frac{(x_i - \overline{x})(y_i - \overline{y})}{\sqrt{var}} = \frac{1}{n} \sum_{i \ge 1} \frac{(x_i - \overline{x})(y_i - \overline{y})}{\sqrt{var}}$
 $= \frac{1}{n} \sum_{i \ge 1} (Zx_i)(Zy_i - 0) = Cov(Zx_i, Zy_i)$

Tamboi en tenemes que.

Cálado os análogo para y.

$$= \frac{\text{cov}(x_1y_1) + \frac{1}{4xy_1}}{\|xy\|_{1}} = \frac{\text{cov}(x_1y_1) + \frac{1}{xy_1}}{\|xy\|_{2}} = \frac{\text{cov}(x_1y_1) + \frac{1}{xy_1}}{\|xy\|_{2}}$$