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$$\sigma_x = \sqrt{\frac{\Sigma(x^2)}{n} - \left(\frac{\Sigma x}{n}\right)^2}$$

$$\sigma_y = \sqrt{\frac{\Sigma(y^2)}{n} - \left(\frac{\Sigma y}{n}\right)^2}$$

$$r = \frac{n\Sigma xy - \Sigma x \Sigma y}{\sqrt{[n\Sigma(x)^2 - (\Sigma x)^2]\,[n\Sigma(y) - (\Sigma y)^2]}}$$

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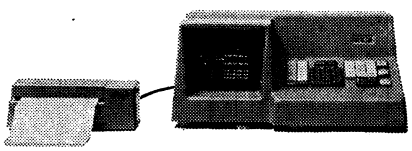

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