Formatting Math Equations with groff and eqn

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Here is nome paragraph text. This all will be processed by groff. The command to compile it goes like that:

eqn filename.ms -T pdf | groff -ms -T pdf > output.pdf
groff -e filename.ms -ms -T pdf > output.pdf

But we can process a block of code with eqn by putting it between .EQ and .EN.

$$x \neq 3 + 5$$

$$\Delta x \geq 3 \pm 5$$

$$b^2 - 4ac$$

$$b^{2-4ac}$$

$$\phi = \frac{1 + \sqrt{5}}{2}$$

$$x = \sqrt{\sum_{i=1}^{N+5}}$$

$$x = \sqrt{\sum_{i=1}^{N}(x_i - \overline{x})^2}$$