Formatting Math Equations with groff and eqn

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Here is some paragraph text. This all will be processed by groff. But we can process a block of code with eqn by putting it between .EQ and .EN.

$$x = 3 + 5$$

$$x \ge 3 \pm 5$$

$$b_{2-4a}$$

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

$$s = \sqrt{\frac{\sum\limits_{i=1}^{N}(x_i - \overline{x})^2}{N - 1}}$$

$$\pi = \int_{-1}^{1} \frac{dx}{\sqrt{1 - x^2}}$$

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

$$x = \frac{-v \pm \sqrt{b^{2-4a}}}{2a}$$

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This is a paragraph. Here is another sentence. Here is an equation $\sum_{1}^{10=} 5^{10}$ Here is more text. I bought this \$10