$V\_E = I\_E \cdot R\_1$

$V\_{RC} = I\_C \cdot R\_2 = 9.77 \, \text{mA} \cdot 470 \, \Omega \approx 4.5 \, \text{V}$

$V\_C = V\_{CC} - V\_{RC}$

$V\_{CE} = V\_C - V\_E$

$I\_C = \frac{V\_{RC}}{R\_2}$

$I\_E = I\_C + I\_B$

$I\_B = \frac{I\_C}{\beta}$

$V\_B = V\_E + V\_{BE}$

$P = F \cdot d$

$\alpha, \, \beta, \, \gamma, \, \delta, \, \epsilon, \, \phi, \, \omega$

$\cdot, \, \times, \, \div, \, \pm, \, \approx, \, \sqrt{x}, \, \leq, \, \geq$

$Test=Yes2$

% \*\*Complex Nested Fractions\*\*

$I\_N = \frac{\frac{V\_{RC}}{R\_2}}{\frac{V\_E}{R\_1}}$

$P\_{out} = \frac{\frac{F \cdot d}{T}}{\frac{I\_E}{t}}$

% \*\*Integral Expressions\*\*

$\int\_0^\infty x^2 \, dx$

$\int\_a^b f(x) \, dx = F(b) - F(a)$

$A = \int\_0^T v(t) \, dt$

% \*\*Summation with Exponents\*\*

$\sum\_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$

$E = \sum\_{n=0}^{\infty} e^{-n}$

% \*\*Exponential and Logarithmic Functions\*\*

$y = e^x \quad \text{and} \quad z = \log(x)$

% \*\*Nested Exponents\*\*

$y = e^{x^2 + \frac{1}{x}}$

$z = x^{x^{x}}$