Another Sample Math Document

Pythagorean theorem: $a^2 + b^2 = c^2$

Logarithmic identity: $\log(ab) = \log a + \log b$

Binomial theorem: $(a+b)^2 = a^2 + 2ab + b^2$

Derivative rule: $\frac{d}{dx} x^n = n x^{n-1}$

Probability formula: $P(A \cup B) = P(A) + P(B) - P(A \cap B)$