

Mathematical Formulas Document

This document contains mathematical formulas to test formula recognition capabilities.

Quadratic Formula:

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

Area of a Circle:

$$A = \pi r^2$$

Pythagorean Theorem:

$$a^2 + b^2 = c^2$$

Einstein's Mass-Energy Equivalence:

$$E = mc^2$$

Normal Distribution:

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} * e^{\left(-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2\right)}$$