% Fundamental Algebra E = $mc^2 \$ Einstein's Mass-Energy Equivalence % Calculus \textbf{Differentiation} \\ \frac{dy}{dx} = \lim_{\Delta x \to 0} \frac{f(x+\Delta x) - f(x)}{Delta x} \\ \textbf{Integration} \\ \int_a^b f(x) \,dx = F(b) - F(a) \\ % Trigonometry \sin^2(\theta) + \cos^2(\theta) = 1 \\ \tan(\theta) = \frac{\sin(\theta)}{\cos(\theta)} \\ % Linear Algebra \mathbf{Ax} = \mathbf{b} \\ % System of Linear Equations \\ \textbf{Determinant:} \det(\mathbf{A}) \\ % Engineering Mechanics \\ \textbf{Hooke's Law:} \sigma = E \cdot \epsilon \\ \\ \textbf{Euler-Bernoulli Beam Equation:} \\ frac{d^2}{dx^2} y(x) \sim \\ \\ % fuckey fuckey formula devised by aradhya \\ \textbf{fucksigive} \\ \ligma = 0 \\ \\ Sheldon's \\ Formula: Slavery = profit devised by sheldon periperi