Fractions

You can create a fraction in LaTeX using the command \frac{*numerator*}{*denominator*}.

$$\frac{1}{2}$$ \frac{1}{2} $$m = \frac{\Delta y}{\Delta x}$$ m=\frac{\Delta y}{\Delta x}

$$\frac{1}{1-\frac{1}{x}}$$ \frac{1}{1-\frac{1}{x}} $$\frac{d}{dx}sin(x) = cos(x)$$ \frac{d}{dx}sin(x)=cos(x)

Roots

You can create a square root in LaTeX using the command \sqrt{*expression*}.

$$\sqrt{100} = 10$$ \sqrt{100}=10 $$\sqrt{b^2}$$ \sqrt{b^2}

You can create an nth root in LaTeX using the command \sqrt[n]{*expression*}.

$$\sqrt[3]{27} = 3$$ \sqrt[3]{27}=3 $$\sqrt[n]{x - \sqrt{x^2 - x}}$$ \sqrt[n]{x-\sqrt{x^2-x}}