PROPER MATHEMATICAL FRACTIONS TEST

Character Rendering Test:

Plus: +
Minus: -
Times: *
Equals: =
Parentheses: ()
Letters: abcxyz
Numbers: 123456

Potentially problematic Unicode:

Sigma: Σ (or S)
Pi: π (or pi)
Alpha: α (or alpha)
Integral: ∫ (or integral)
Sqrt: √ (or sqrt)
Half: ½ (or 1/2)
Quarter: ¼ (or 1/4)

Vertical Fractions (numerator above denominator):

$$\frac{1}{2} \qquad \frac{a}{b} \qquad \frac{x+y}{z-w} \qquad \frac{a^2+b^2}{2c} \qquad \frac{mv^2}{2} \qquad \frac{\pi r^2}{4}$$

Simple   Variables   Complex num   With powers   Physics   Constants

Complex expressions with vertical fractions:

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

Physics equations:

Kinetic Energy: $KE = \frac{1}{2} mv^2$