









Slant Asymptote

A slant asymptote (or oblique asymptote) may occur when the degree of the numerator is exactly one more than the degree of the denominator.

The equation of the slant asymptote is the quotient of performing long division.

To Graph a Rational Function

- 1. Find the vertical asymptotes by setting the denominator equal to zero.
- 2. Find the horizontal asymptote by comparing the degrees of the numerator & denominator.
- 3. Find the *y*-intercept by setting x = 0.
- 4. Find the *x*-intercept by setting the numerator equal to zero.
- 5. Sketch the graph (plot points to help, if necessary).



