Rational Polynomials: Graphing and Asymptotes Find the intercepts, if there are any. Step 1: Set the numerator to 0 to solve for horizontal

intercepts.
Step 2: Set the x to 0 to solve for vertical intercept.
Step 3: Set the denominator to 0 to solve for vertical
asymptotes.
Step 4: Perform a long division to find the quotient which

specifies the oblique asymptote.

Note: Blue curve the actual Rational function.

Red and Gold asymptotes.

 $\frac{3 \times 1}{2 \times 4} + \left(\begin{array}{c} \frac{3}{2} \end{array} \right)$

Example: Horizontal Asymptote





