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 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

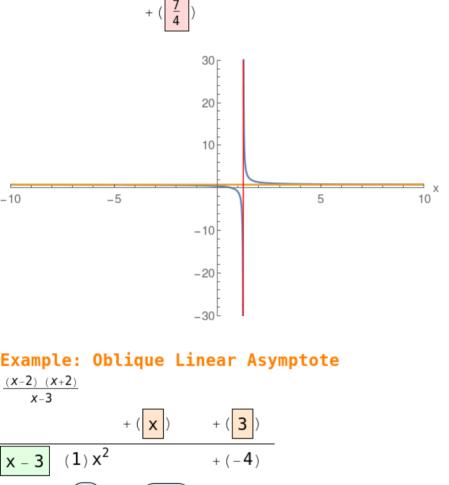
specifies the oblique asymptote.

Note: Blue curve the actual Rational function.

Red and Gold asymptotes.

Example: Horizontal Asymptote

 $\frac{3 \times -2}{4 \times -5} + (\boxed{\frac{3}{4}})$ $4 \times -5 \quad (3) \times + (-2)$ $(\boxed{3 \times}) + (\boxed{-\frac{15}{4}})$ $+ (\boxed{\frac{7}{4}})$



+ (3) x

