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

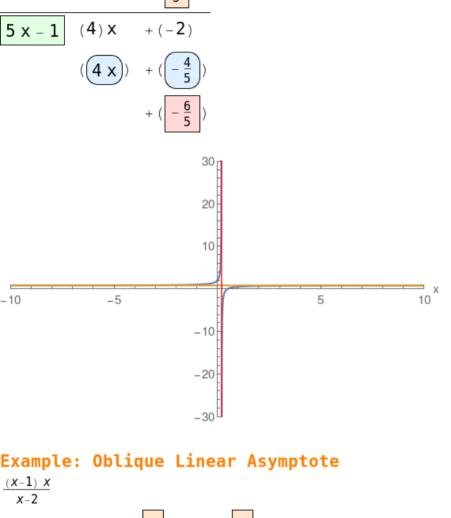
intercepts.
Step 2: Set the x to 0 to solve for vertical intercept.
Step 3: Set the denominator to 0 to solve for vertical
asymptotes.
Step 4: Perform a long division to find the quotient which

specifies the oblique asymptote.

Note: Blue curve the actual Rational function.

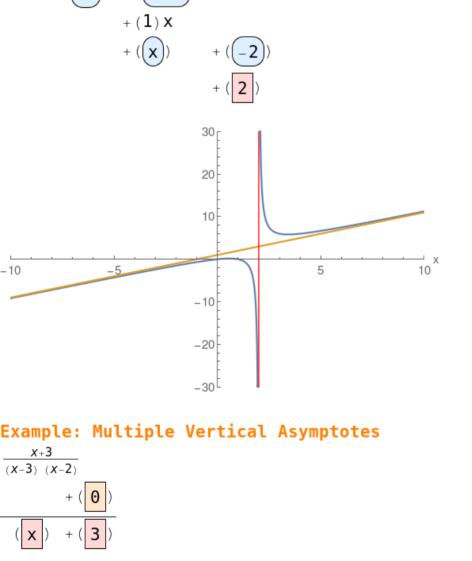
Red and Gold asymptotes.

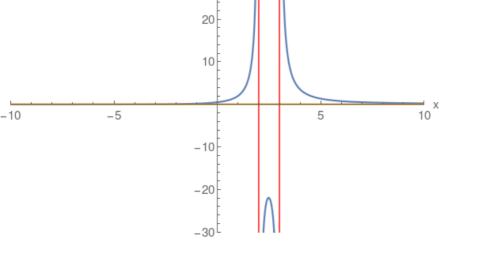
Example: Horizontal Asymptote $\frac{4 \times 2}{5 \times 1}$ + $(\boxed{\frac{4}{5}})$



 $(1) x^2$

x - 2





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