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

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 $\frac{x-2}{4x-5}$

-20

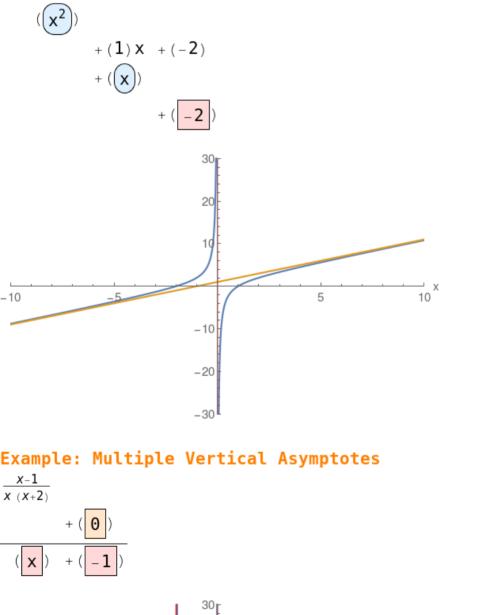
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Example: Oblique Linear Asymptote

+(1)x+(-2)

(x-1)(x+2)

 $(1) x^2$



20 10 -10 -20 -30