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.

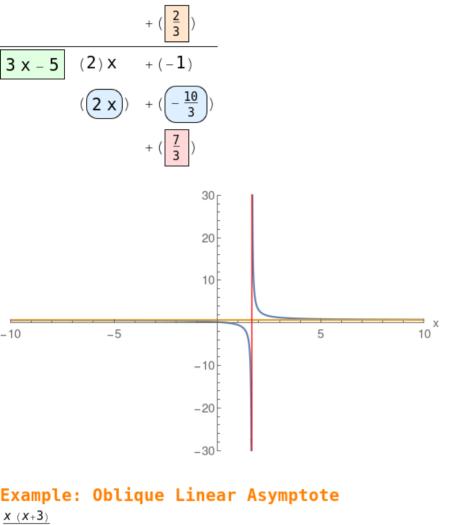
Step 3: Set the denominator to 0 to solve for vertical asymptotes.

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 $\frac{2 x-1}{3 x-5}$



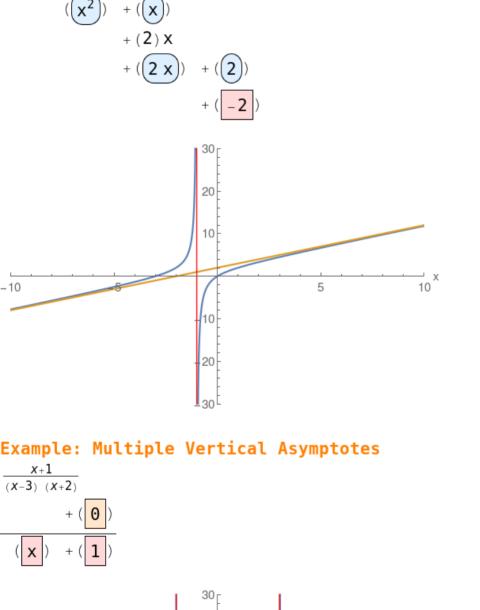
x+1

x + 1

-10

-5

 $(1) x^2$



20

10

-10

-30