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.

Example: Horizontal Asymptote $\frac{3 \times -5}{2 \times -4}$ $+ (\frac{3}{2})$

2 x - 4 (3) x + (-5) (3 x) + (-6) + (1) 30 20 10 -10 -20 -30 Example: Oblique Linear Asymptote (x-3) (x-1) x+2



