We must set the denominator equal to 0 and solve: $f^{4}-256=0$ $(f^2-16)(f^2+16)=0$

 $(f^2 - 16) = 0$ (f-4)(f+4)=0f=4 or f=-4

There is vertical asymptote at f=4 and at f=-4To find the horizontal asymptote :

To find the vertical asymptote :

First we must compare the degrees of the polynomials.

The numerator contains a 3rd degree polynomial while the

denominator contains a 4th degree polynomial.

Since the polynomial in the numerator is a lower degree than the denominator, the horizontal asymptote is located at a=0.

To find the oblique asymptote : Since the degrees of the numerator are less than the degrees of the denominator, this rational does not have an oblique asymptote

-105 10 -0.2