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

(d-2)(d+2)=0d=2 or d=-2

 $(d^2-4)=0$

There is vertical asymptote at d=2 and at d=-2

To find the vertical asymptote :

To find the horizontal 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 : this rational does not have an oblique asymptote

-10

0.2 -5 5

-0.2

10

Since the degrees of the numerator are less than the degrees of the denominator,