١.

We must set the denominator equal to 0 and solve:

t³ - 125=0 t=5

To find the horizontal asymptote :

There is a vertical asymptote at t=5

To find the vertical asymptote :

First we must compare the degrees of the polynomials. The numerator contains a 2nd degree polynomial while

The numerator contains a 2[™] degree polynomial wh the denominator contains a 3rd degree polynomial.

Since the polynomial in the numerator is a lower degree than the denominator,

the horizontal asymptote is located at p=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

-1.5

1.5 1.0 0.5 -15 -10 -5 10 15 t