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To find the vertical asymptote :

We must set the denominator equal to 0 and solve: t^3 – 1=0

t=1 There is a vertical asymptote at t=1

To find the horizontal asymptote : First we must compare the degrees of the polynomials.

The numerator contains a 2nd degree polynomial while

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 r=0.
To find the oblique asymptote :

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

this rational does not have an oblique asymptote

