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To find the vertical asymptote :

We must set the denominator equal to 0 and solve: e³ – 64=0

e - 64=6 e=4 There is a vertical asymptote at e=4

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

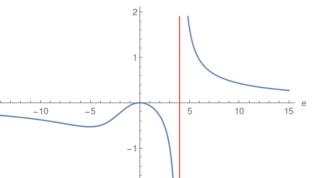
The numerator contains a 2nd degree polynomial while

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 t=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



- 15