To find the vertical asymptote :

We must set the denominator equal to 0 and solve: $z^3 - 125 = 0$

7 = 5

There is a vertical asymptote at z=5 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 s=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

