3.

We must set the denominator equal to 0 and solve:

v³ - 125=0 v=5

There is a vertical asymptote at v=5 To find the horizontal asymptote :

To find the vertical 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 h=0.

the horizontal asymptote is located at h=0. To find the oblique asymptote : Since the degrees of the numerator are loss than the degrees of the denom

Since the degrees of the numerator are less than the degrees of the denominator, this rational does not have an oblique asymptote

h 2 -15 -10 -5 5 10 15 V