2 _

To find the vertical asymptote : We must set the denominator equal to 0 and solve: ${
m k}^3$ – 125=0

k=5
Thoro is a vortical asymptoto at k=5

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

-0.2

-0.4

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

the denominator contains a 3^{rd} degree polynomial. Since the polynomial in the numerator is a lower degree than the denominator, the horizontal asymptote is located at c=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

this rational does not have an oblique asymptote

0.4

0.2

-15 -10 -5 5 10 15 k