-. To find the vertical asymptote :

We must set the denominator equal to 0 and solve: z³ – 125=0

z=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 3^{rd} degree polynomial. Since the polynomial in the numerator is a lower degree than the denominator, the horizontal asymptote is located at k=0.

the horizontal asymptote is located at $k_{=}0$. To find the oblique asymptote : Since the degrees of the numerator are less than the degrees of the denominator,

