___ To find the vertical asymptote :

We must set the denominator equal to 0 and solve: $z^3 - 8 = 0$

z=2 There is a vertical asymptote at z=2

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 k=0. To find the oblique asymptote :

