).

It so happens that this function can be simplified as: $d(z) = \frac{-4+6z+4z^2}{2+z}$

 $=\frac{(z+2)\cdot(4|z-2)}{z+2}$ = 4 z - 2 To find the vertical asymptote :

There is no vertical asymptote 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 1st degree polynomial. Since the polynomial in the numerator is a higher degree than the denominator, there is no horizontal asymptote.

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there is no horizontal asymptote. To find the oblique asymptote : we must divide the numerator by the denominator and so the oblique asymptote c=4 z - 2

aust divide the numerator by the denominato