-. It so happens that this function can be simplified as:

 $q (d) = \frac{-1+d^3}{-2+d+d^2}$ $= \frac{(d-1) (d^2+d+1)}{(d-1) (d+2)}$

$$=\frac{(d-1) \left(d^2+d+1\right)}{(d-1) \left(d+2\right)}$$

$$=\frac{d^2+d+1}{d+2}$$
 To find the vertical asymptote :

d+2=0 d=-2 There is a vertical asymptote at d=-2

To find the horizontal asymptote : First we must compare the degrees of the polynomials. The numerator contains a 3rd degree polynomial while the

denominator contains a 2nd degree polynomial.

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

there is no horizontal asymptote. To find the oblique asymptote : we must divide the numerator by the denominator $\frac{-1+d^3}{-2+d+d^2}=\frac{d^2+d+1}{d+2}=\frac{3}{d+2}+(d-1)$ There is an oblique asymptote at a=d -1

There is an oblique asymptote at a=d-1 $\begin{bmatrix} a \\ 40 \end{bmatrix}$