It so happens that this function can be simplified as: $b(C) = \frac{-1+c^3}{-2+c+c^2}$ $= \frac{(c-1)(c^2+c+1)}{(c-1)(c+2)}$

$$= \frac{(c-1) (c^2 + c + 1)}{(c-1) (c+2)}$$

$$= \frac{c^2 + c + 1}{c+2}$$

c + 2 = 0C = -2There is a vertical asymptote at c=-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,

To find the vertical asymptote :

there is no horizontal asymptote. To find the oblique asymptote :

we must divide the numerator by the denominator $\frac{-1+c^3}{-2+c+c^2} = \frac{c^2+c+1}{c+2} = \frac{3}{c+2} + (c-1)$ There is an oblique asymptote at p=c-1